

TRBOnet Dispatch Software User Guide

August 04, 2014

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Preface

This document is intended for all TRBOnet Users to customize Dispatch Console, available actions in Radio Interface, working with online and offline maps and 2D/3D floor plans, GPS Positioning details, creating different report types, Voice Recording and Event Log options, telemetry monitoring actions, creating and working with Job Tickets and using Web Interface of TRBOnet Dispatch Software.

About the Company

Neocom Software, Ltd was created in 2007 on the basis of Neocom, Ltd., which was founded in 1997 and is the famous supplier of radio communication systems for professional or license-free use on the ground, seas or rivers.

Today, Neocom Software has Motorola Application Partner status in EMEA, Latin America and the Asia Pacific region, and Motorola Application Provider status in North America.

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EMEA	+7 812 45 70 893	
APAC	+7 812 45 70 893	

Copyright

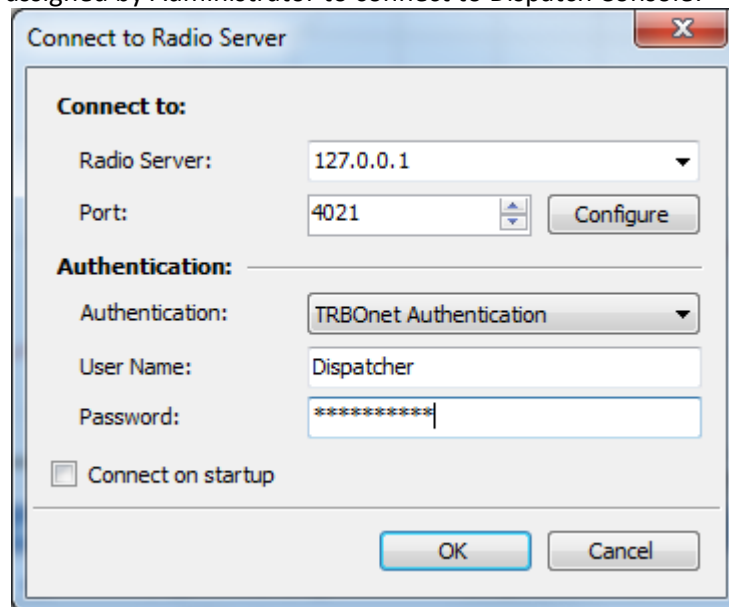
Intellectual property rights protect the voice coding Technology embodied in this product including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding technology is licensed solely for use within this Communications Equipment. U.S. Pat. Nos. 6,199,037, 5,870,405, 5,754,974, 5,664,051, 5,630,011, 5,517,511, 5,491,772, 5,247,579, 5,226,108, 5,226,084, 5,216,747 and 5,081,681.

Dispatch Console Interface Overview

Launch TRBOnet Dispatch Software Dispatch Console using the shortcut on your desktop.

Note: For the first launch, please refer to [TRBOnet Administration Guide](#).

Type in your credentials, assigned by Administrator to connect to Dispatch Console:



Connect to:

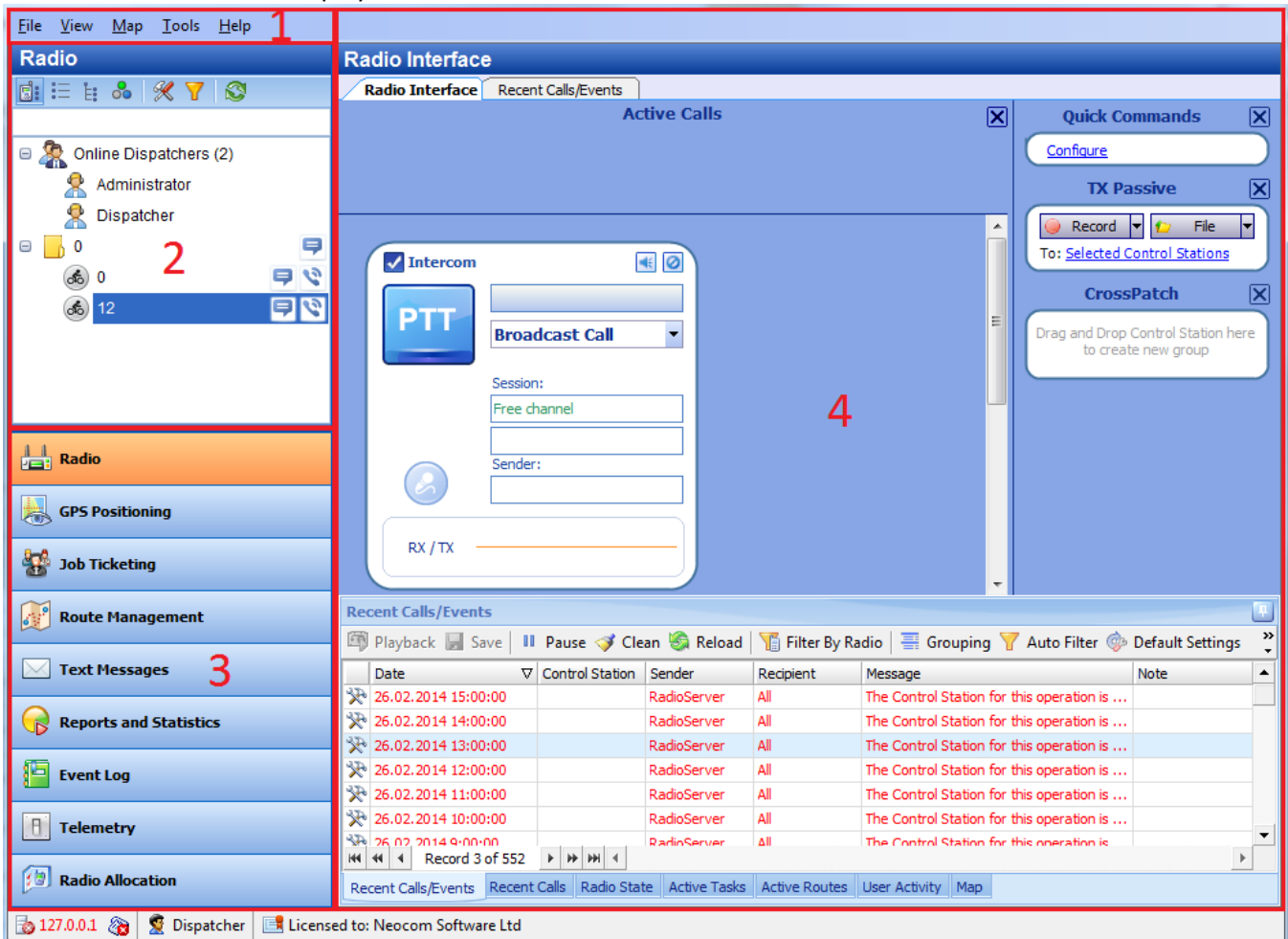
- **Radio Server** – select the TRBOnet Dispatch Software server in the dropdown list or specify its IP Address;
- **Port** – specify command port of TRBOnet RadioServer (4021 set by default). *For more details on Command port settings see [TRBOnet Administration Guide](#), **Configure Network Parameters** section.*

Authentication:

- **Authentication** – select Authentication type in the dropdown list.
- **User Name** – specify User Name registered in TRBOnet Dispatch Software Users list;
- **Password** – type in the individual password.

Check the box **Connect on startup** for automatic login to TRBOnet RadioServer without password prompting next time.

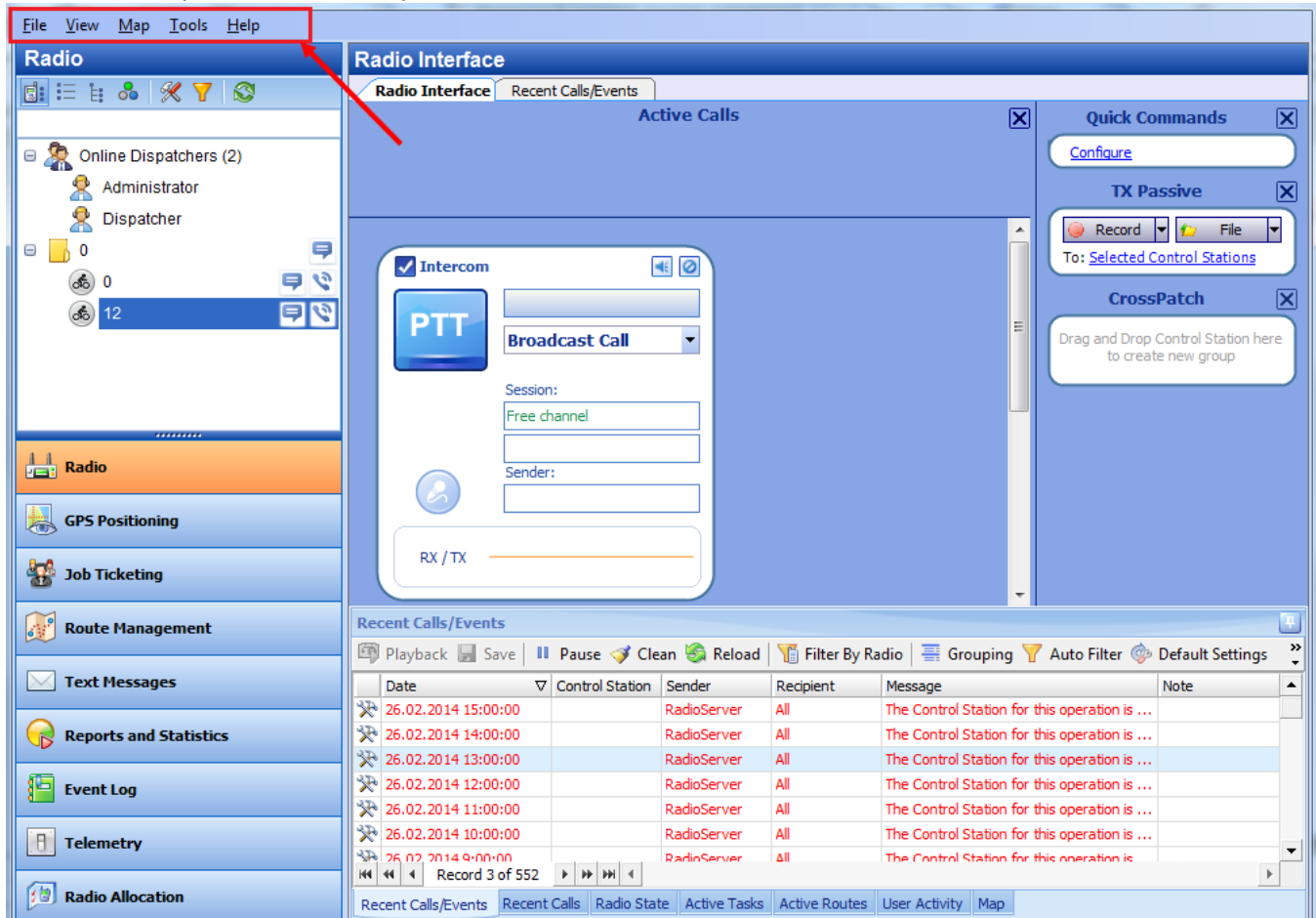
When Dispatch Console is launched it connects to TRBOnet RadioServer and by default the Radio Interface screen is displayed:



- 1 – Dispatch Console Menu
- 2 – Navigation Tree
- 4 – Main Windows

Dispatch Console Menu

Dispatch Console menu allows to manage the main Dispatch Console options it can be found in the upper part of TRBOnet Dispatch Software Dispatch Console:



File View Map Tools Help

Radio

Online Dispatchers (2)
 Administrator
 Dispatcher

0
 12

Radio

GPS Positioning

Job Ticketing

Route Management

Text Messages

Reports and Statistics

Event Log

Telemetry

Radio Allocation

Radio Interface

Recent Calls/Events

Active Calls

Intercom

PTT

Broadcast Call

Session:
 Free channel

Sender:

RX / TX

Quick Commands

Configure

TX Passive

Record File

To: Selected Control Stations

CrossPatch

Drag and Drop Control Station here to create new group

Recent Calls/Events

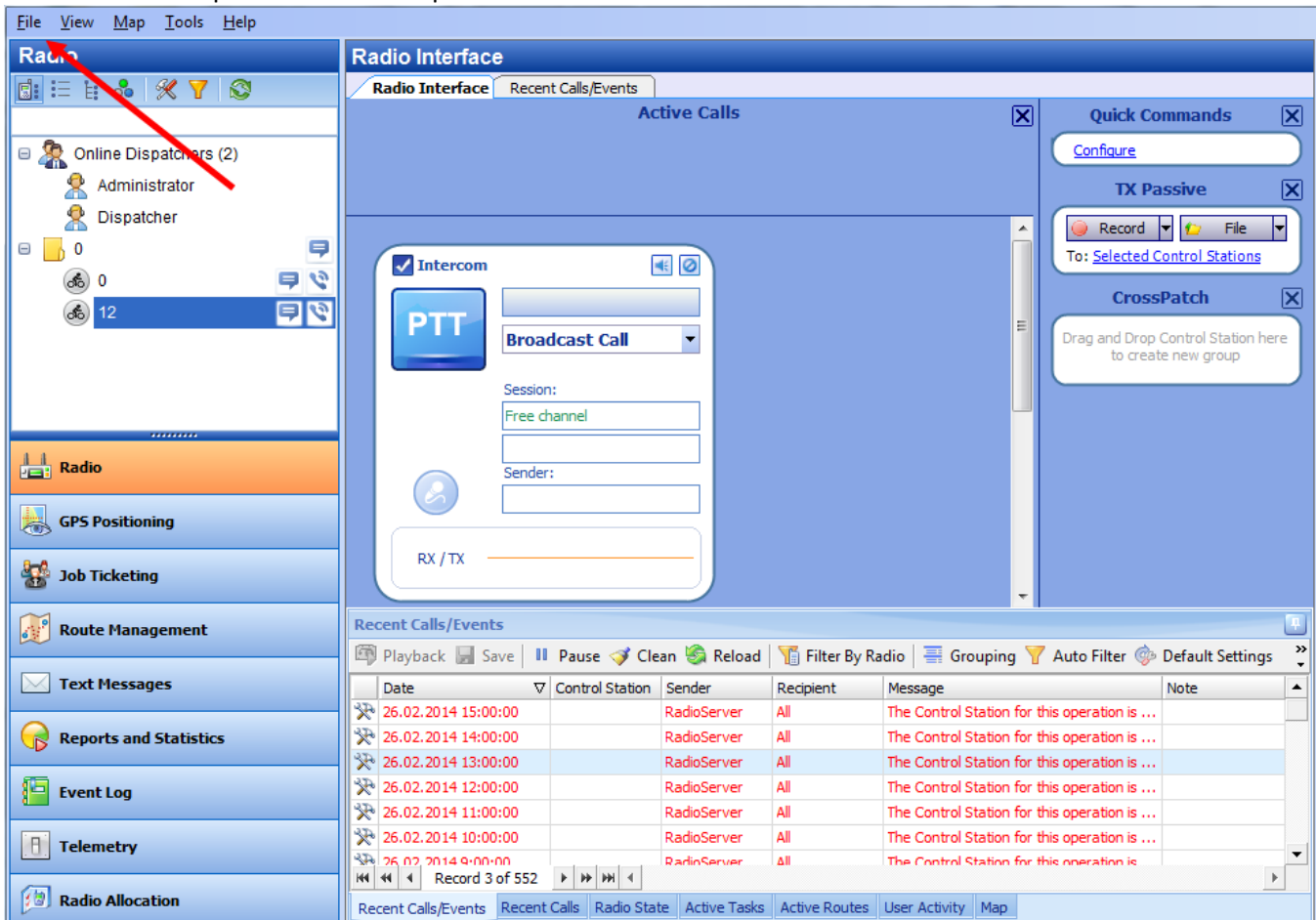
Date	Control Station	Sender	Recipient	Message	Note
26.02.2014 15:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 14:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 13:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 12:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 11:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 10:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 9:00:00		RadioServer	All	The Control Station for this operation is ...	

Record 3 of 552

Recent Calls/Events Recent Calls Radio State Active Tasks Active Routes User Activity Map

File

Select **File Menu** to connect to another TRBOnet Dispatch Software server or to use other credentials. Also, exit from TRBOnet Dispatch Software Dispatch Console is available:



The screenshot shows the TRBOnet Dispatch Software interface. The 'File' menu is highlighted with a red arrow. The interface is divided into several sections:

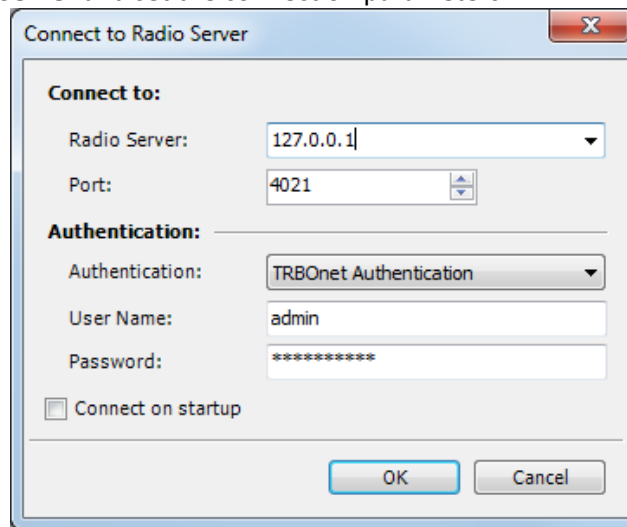
- Left Sidebar:** Contains navigation icons and labels for 'Radio', 'GPS Positioning', 'Job Ticketing', 'Route Management', 'Text Messages', 'Reports and Statistics', 'Event Log', 'Telemetry', and 'Radio Allocation'.
- Top Menu:** Includes 'File', 'View', 'Map', 'Tools', and 'Help'.
- Radio Interface:** The main workspace, currently showing 'Active Calls' and a 'Recent Calls/Events' table.
- Quick Commands:** A panel on the right with buttons for 'Configure', 'TX Passive', 'Record', 'File', and 'CrossPatch'.

The 'Recent Calls/Events' table displays the following data:

Date	Control Station	Sender	Recipient	Message	Note
26.02.2014 15:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 14:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 13:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 12:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 11:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 10:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 09:00:00		RadioServer	All	The Control Station for this operation is ...	

1. Connect to TRBOnet RadioServer

Select [File](#), **Connect to RadioServer** and set the connection parameters:



The dialog box titled "Connect to Radio Server" contains the following fields and controls:

- Connect to:**
 - Radio Server: A dropdown menu showing "127.0.0.1".
 - Port: A spin box showing "4021".
- Authentication:**
 - Authentication: A dropdown menu showing "TRBOnet Authentication".
 - User Name: A text box containing "admin".
 - Password: A text box containing "*****".
- ☐ Connect on startup
- OK and Cancel buttons at the bottom right.

Connect to:

- **Radio Server** – select the TRBOnet Dispatch Software server in the dropdown list or specify its IP Address;
- **Port** – specify a command port of TRBOnet RadioServer (4021 set by default). *For more details on Command port settings see [TRBOnet Administration Guide](#), **Configure Network Parameters** section.*

Authentication:

- **Authentication** – select Authentication type in the dropdown list.
- **User Name** – specify User Name registered in TRBOnet Dispatch Software Users list;
- **Password** – type in the individual password.

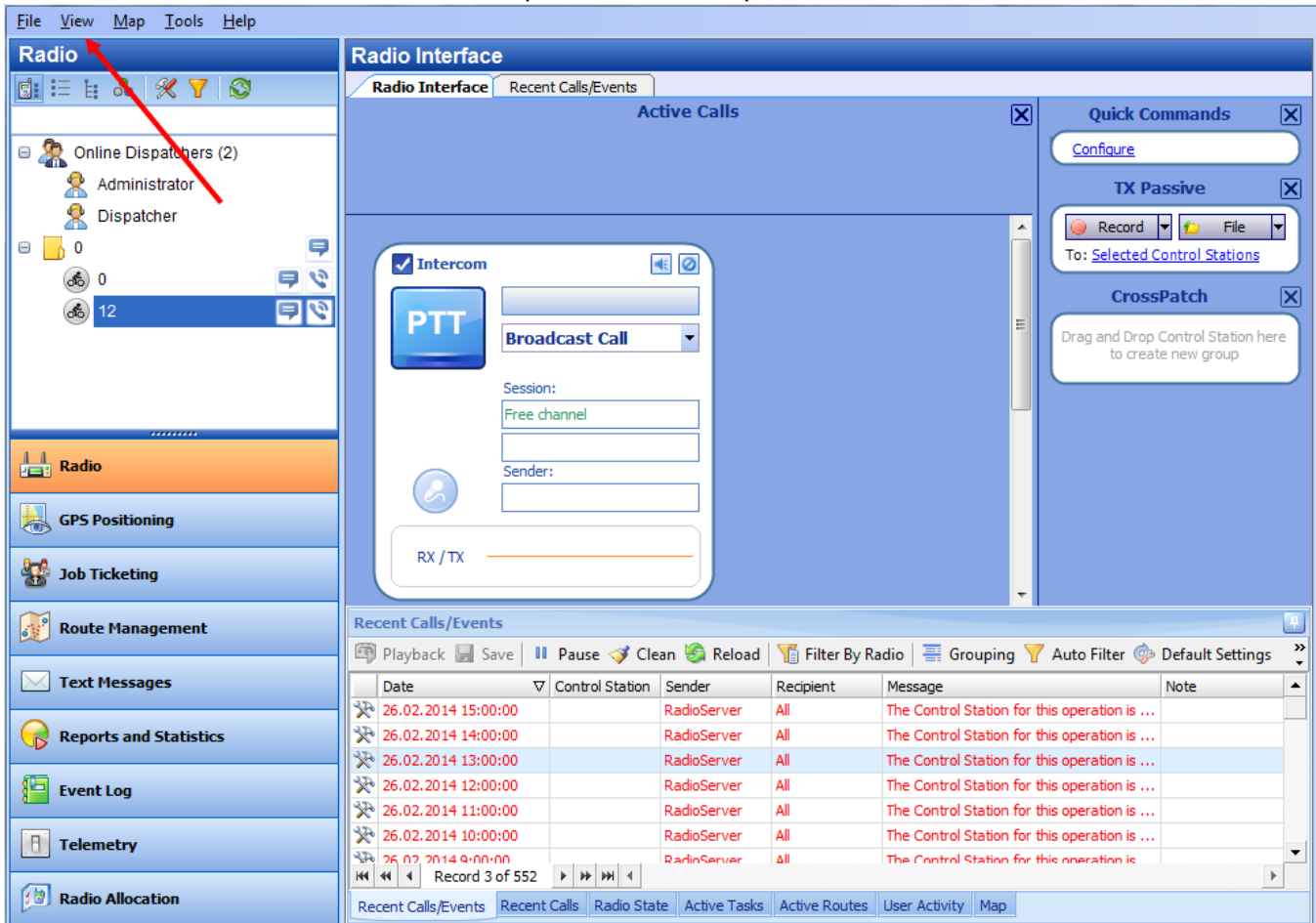
Check the box **Connect on startup** for automatic login to TRBOnet RadioServer without password prompting next time.

2. Exit

Select [File](#), **Exit** to exit the Dispatch Console.

View

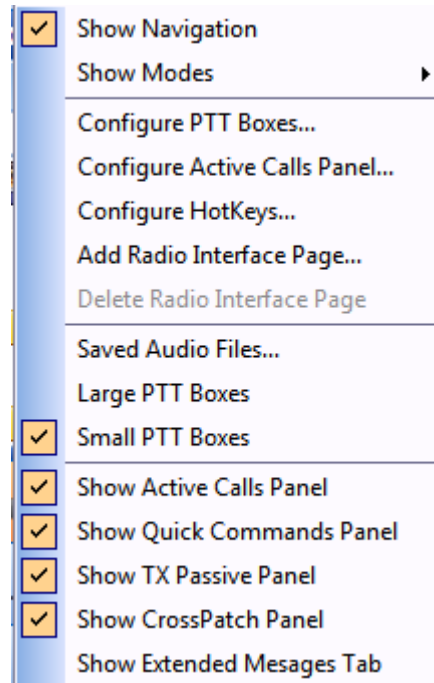
Select **View Menu** to customize TRBOnet Dispatch Software Dispatch Console:



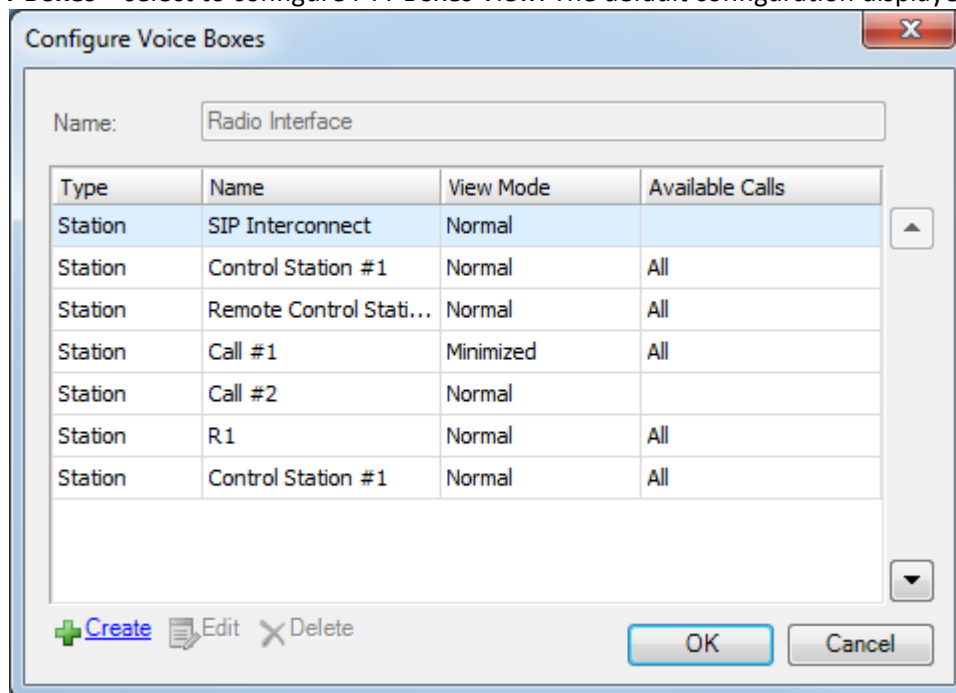
The screenshot shows the TRBOnet Dispatch Software interface. The top navigation bar includes **File**, **View**, **Map**, **Tools**, and **Help**. The **View** menu is highlighted with a red arrow. Below the navigation bar is a sidebar with various modules: **Radio** (selected), **GPS Positioning**, **Job Ticketing**, **Route Management**, **Text Messages**, **Reports and Statistics**, **Event Log**, **Telemetry**, and **Radio Allocation**. The main window is titled **Radio Interface** and contains several panels: **Radio Interface** (with sub-tabs for **Radio Interface** and **Recent Calls/Events**), **Active Calls**, **Quick Commands**, **TX Passive**, **CrossPatch**, and **Recent Calls/Events**. The **Recent Calls/Events** panel displays a table of call logs.

Date	Control Station	Sender	Recipient	Message	Note
26.02.2014 15:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 14:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 13:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 12:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 11:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 10:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 09:00:00		RadioServer	All	The Control Station for this operation is ...	

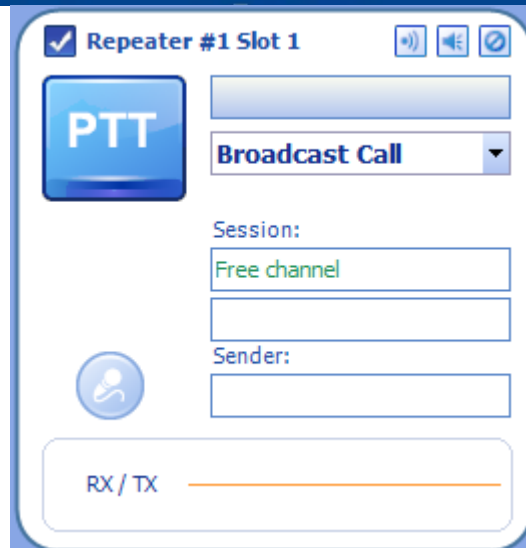
Click «**View**» to open the Menu:



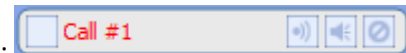
1. **Show Navigation** – select to display Navigation Tree.
2. **Show modes** – select modes in the list to display in the Dispatch Console.
3. **Configure PTT Boxes** – select to configure PTT Boxes View. The default configuration displayed:



- **Type** – the Box type (e.g. Station) is displayed;
- **Name** – specify the Name for selected box to display in the Dispatch Console;
- **View Mode** – select the mode in the dropdown list:
 - **Invisible** – the box will not be displayed in the Dispatch Console;
 - **Normal** – the box will be displayed in Normal mode:



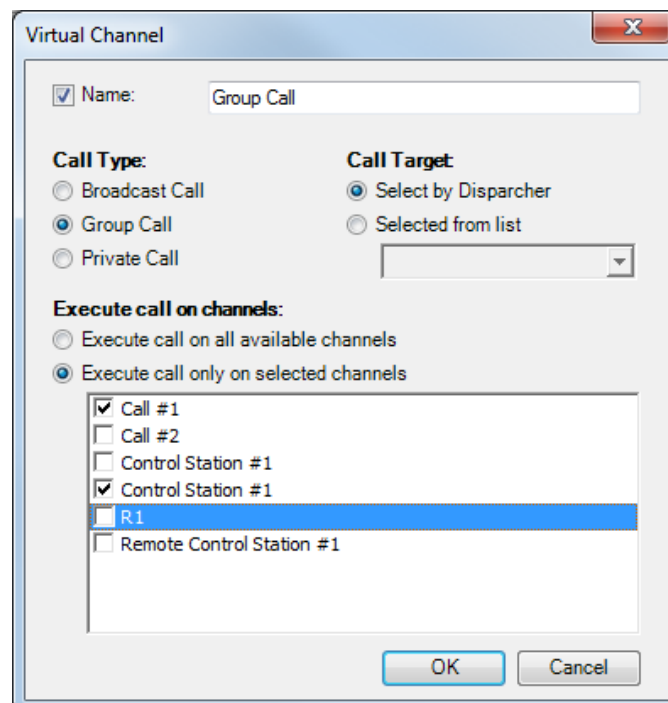
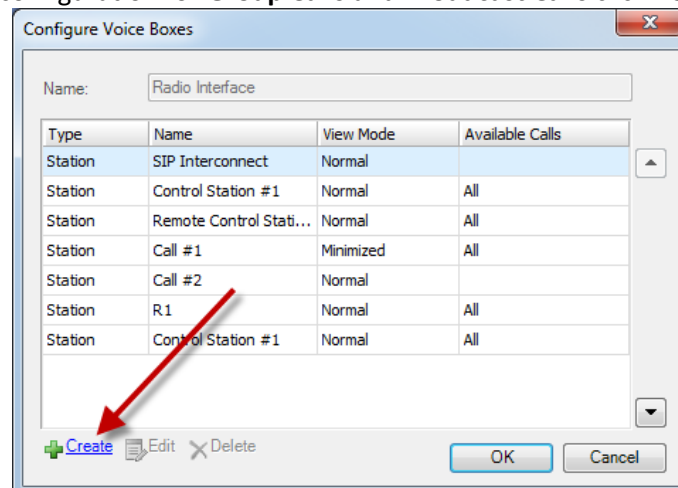
- **Minimized** – the box will be displayed in Minimized mode:



Note: point mouse cursor over the minimized box to see it in the Normal Mode.

- **Available Calls** – select available Call types for the box:
 - Select **All** to make all Call Types available for selected box;
 - Select **Broadcast** to make Broadcast Call available for selected box.

To create individual boxes configuration for **Group Calls** and **Broadcast Calls** click «**Create**» button:



- **Name** – check the **Name** box to specify the configuration name and type in the configuration name.
- **Call Type** – select Call Type for new configuration.
- **Call Target** – «**Select by Dispatcher**» allows the Dispatcher selecting the group. «**Selected from the list**» allows to create the configuration for one selected group.

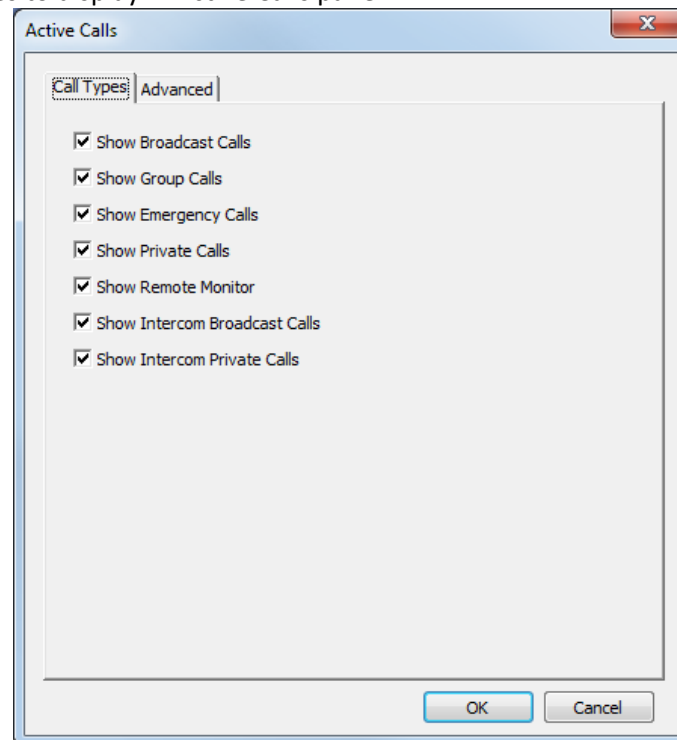
Note: Not available for Broadcast Call Mode.

- **Execute call on channels** – select all available channels or select channels in the list below to execute calls from these channels.

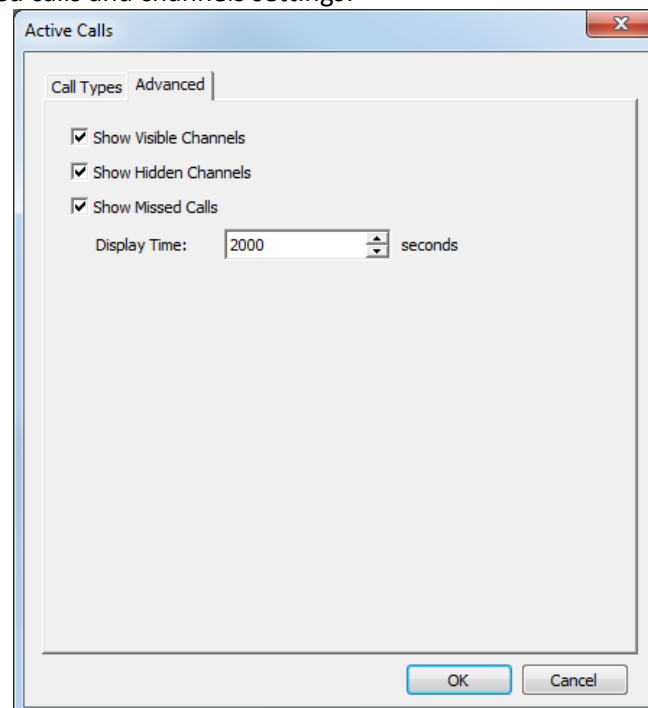
Note: Not available for Private Call Mode.

Click «**OK**» to create the configuration.

4. Configure Active Calls panel – select to configure call types and advanced settings for Active Calls panel:
Call Types – select call types to display in Active Calls panel:

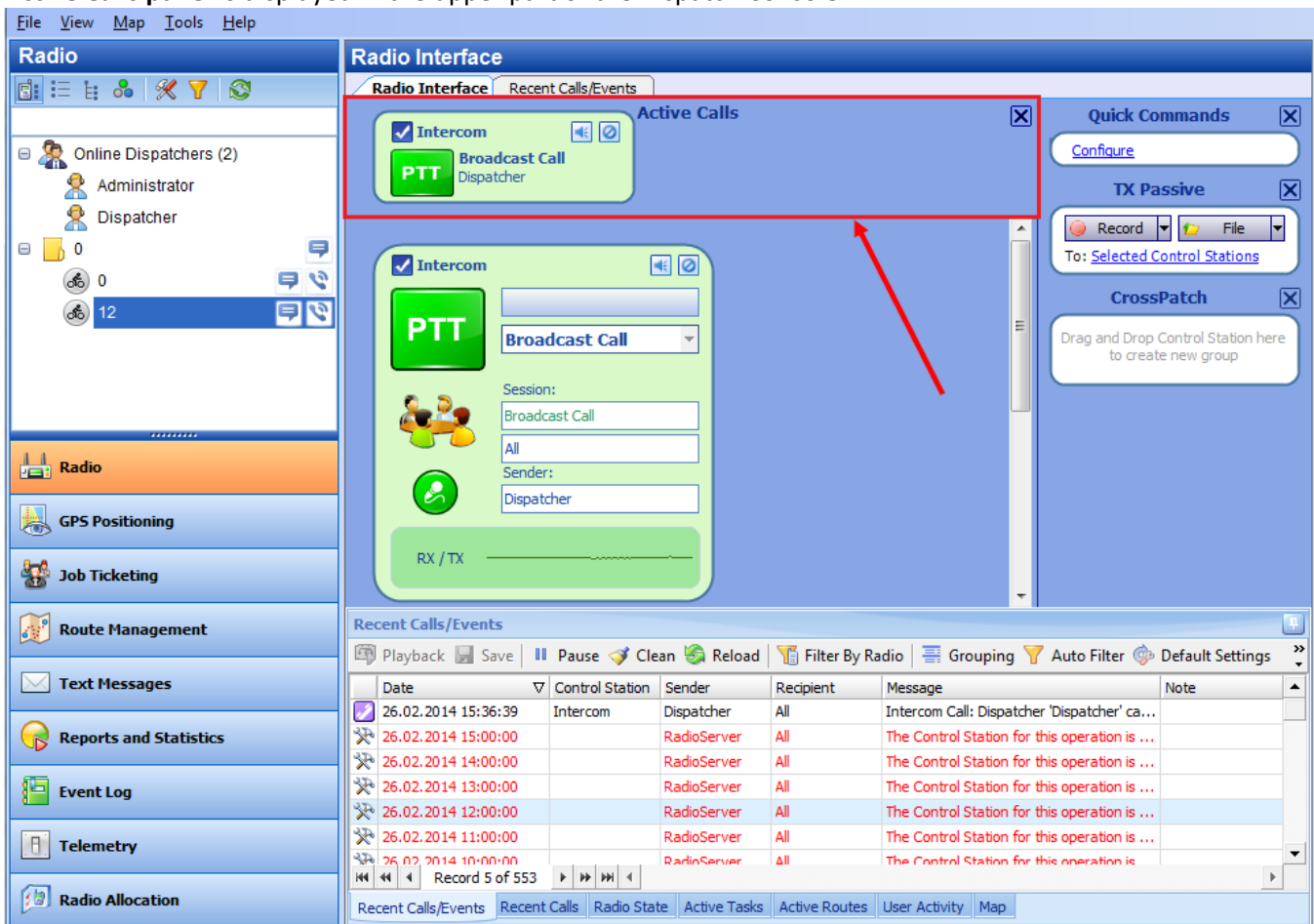


Advanced – specify Advanced calls and channels settings:



Specify elements to display and display time.

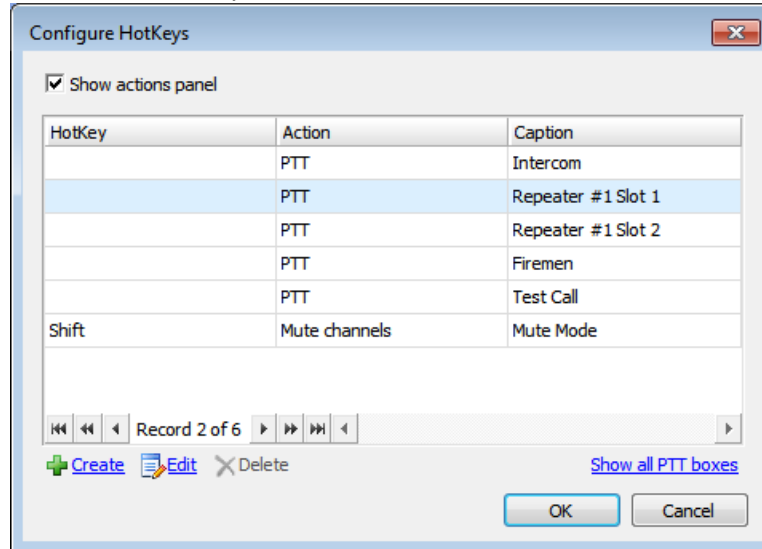
Active Calls panel is displayed in the upper part of the Dispatch Console:



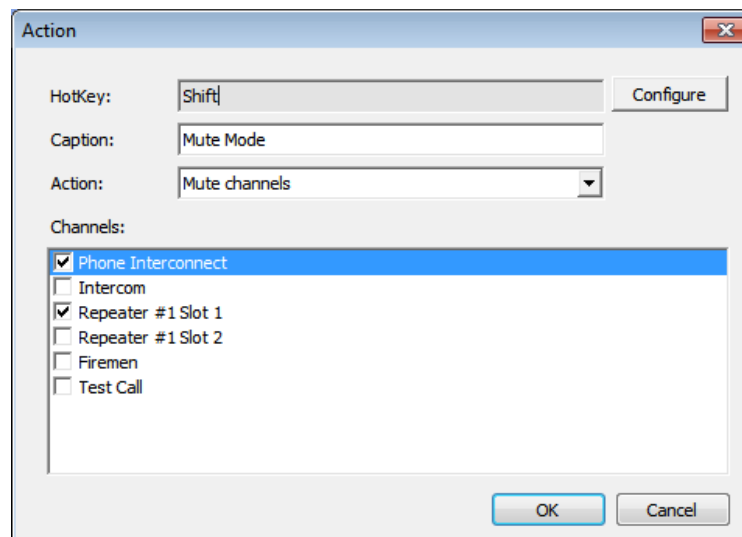
The screenshot displays the Dispatch Console interface. On the left is a sidebar with various modules: Radio, GPS Positioning, Job Ticketing, Route Management, Text Messages, Reports and Statistics, Event Log, Telemetry, and Radio Allocation. The main area is titled 'Radio Interface' and contains several panels. The 'Active Calls' panel is highlighted with a red border and a red arrow pointing to it. This panel shows a 'Broadcast Call' in progress, with a 'PTT' button and a 'Broadcast Call' dropdown menu. Below this, there are fields for 'Session', 'Sender', and 'Dispatcher'. To the right of the 'Active Calls' panel is a 'Quick Commands' section with buttons for 'Configure', 'Record', and 'File'. Below this is a 'TX Passive' section with a 'Record' button and a 'File' button. At the bottom of the main area is a 'Recent Calls/Events' table. The table has columns for Date, Control Station, Sender, Recipient, Message, and Note. The table shows a list of recent calls, with the first entry being an 'Intercom' call from 'Dispatcher' to 'All' at 15:36:39 on 26.02.2014.

Date	Control Station	Sender	Recipient	Message	Note
26.02.2014 15:36:39	Intercom	Dispatcher	All	Intercom Call: Dispatcher 'Dispatcher' ca...	
26.02.2014 15:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 14:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 13:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 12:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 11:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 10:00:00		RadioServer	All	The Control Station for this operation is ...	

5. Configure hotkeys – select to add hotkeys for actions with selected channels:



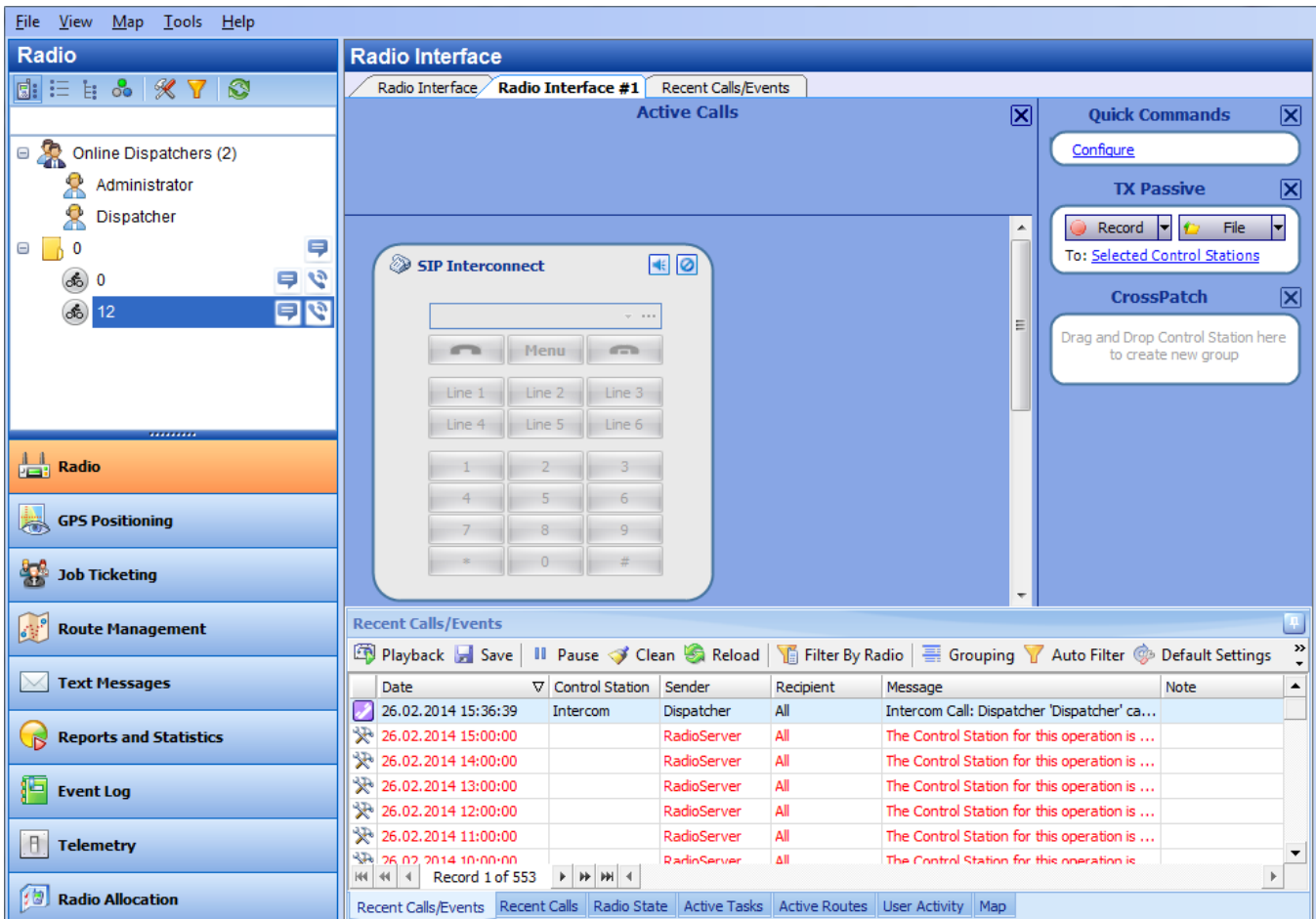
1. If you are going to configure PTT actions for PTT boxes click «**Show all PTT Boxes**» button and assign the hotkey or hotkeys combination. Double-click «**HotKey**» column and select hotkey(s) for the action.
2. If you are going to set specific actions for PTT boxes (e.g., Mute channels or set default PTT channels), click «**Create**» button:



- **Hotkey** – click «**Configure**» button to set a key you want to assign for the selected action;
- **Caption** – type in a caption to display in the Dispatch Console;
- **Action** – select action in the dropdown list:
 - ✓ **Default PTT channel** –selected PTT box functions as a default PTT channel;
 - ✓ **Mute channels** – mutes selected PTT boxes;
 - ✓ **Unmute channels** – unmutes selected PTT boxes;
 - ✓ **Voice from channels** – mutes voice from all PTT boxes except selected one(s).
- **Channels** – check PTT boxes to assign the actions above.

Click «**OK**» to save hotkeys configuration.

6. Add Radio Interface Tab – select to add new Radio Interface Tab. Select new Radio Interface in the upper part of the **Calls Pane**:



The screenshot shows the TRBOnet software interface. On the left is a sidebar with a 'Radio' tab selected. The main window is titled 'Radio Interface' and has two tabs: 'Radio Interface' and 'Recent Calls/Events'. The 'Radio Interface' tab is active, showing a 'SIP Interconnect' window with a numeric keypad and line buttons (Line 1 to Line 6). On the right side of the main window, there are 'Quick Commands' including 'Configure', 'TX Passive', 'Record', 'File', and 'CrossPatch'. At the bottom of the main window is a 'Recent Calls/Events' table.

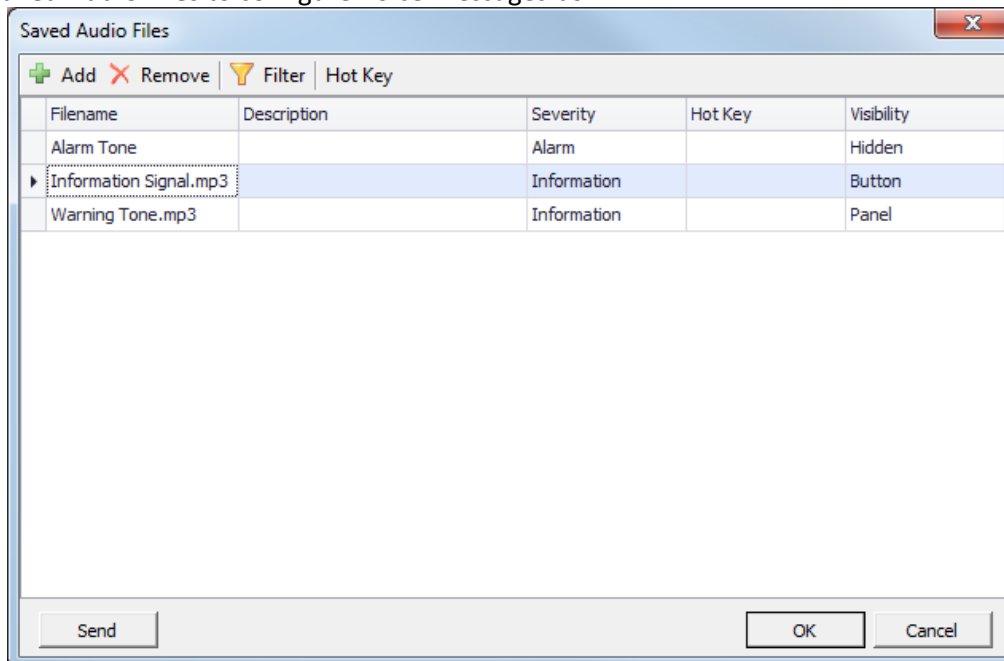
Date	Control Station	Sender	Recipient	Message	Note
26.02.2014 15:36:39	Intercom	Dispatcher	All	Intercom Call: Dispatcher 'Dispatcher' ca...	
26.02.2014 15:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 14:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 13:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 12:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 11:00:00		RadioServer	All	The Control Station for this operation is ...	
26.02.2014 10:00:00		RadioServer	All	The Control Station for this operation is ...	

6. Delete Radio Interface Tab – select to delete selected Radio Interface Tab.

Note: Default Radio Interface Tab is not available to delete.

7. Saved Audio Files

This option allows adding configured Voice Messages on the Calls Pane to send it by clicking Voice Message box. Go to [View](#), **Saved Audio Files** to configure Voice Messages box:



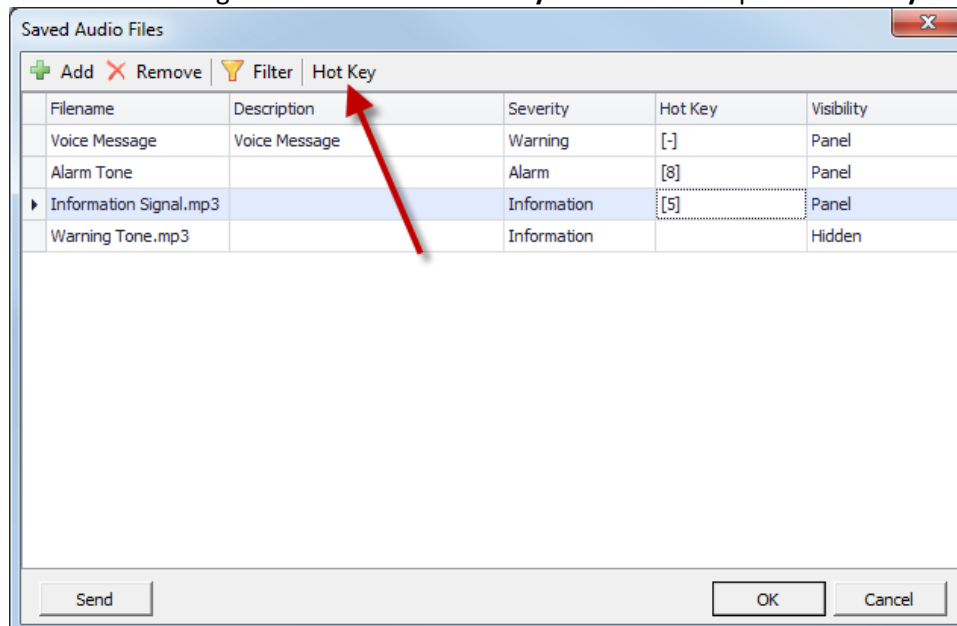
Filename – specify the name of the configured voice message displayed on the Calls Pane. *For more details on Voice Messages configuration see [TRBOnet Administration Guide](#), Tasks, Voice Message section;*

Description – add the description for Voice Message;

Severity – select severity level in the dropdown list:

- **Information** – select to set low severity level
- **Warning** – select to set middle severity level
- **Alarm** – select to set high severity level.

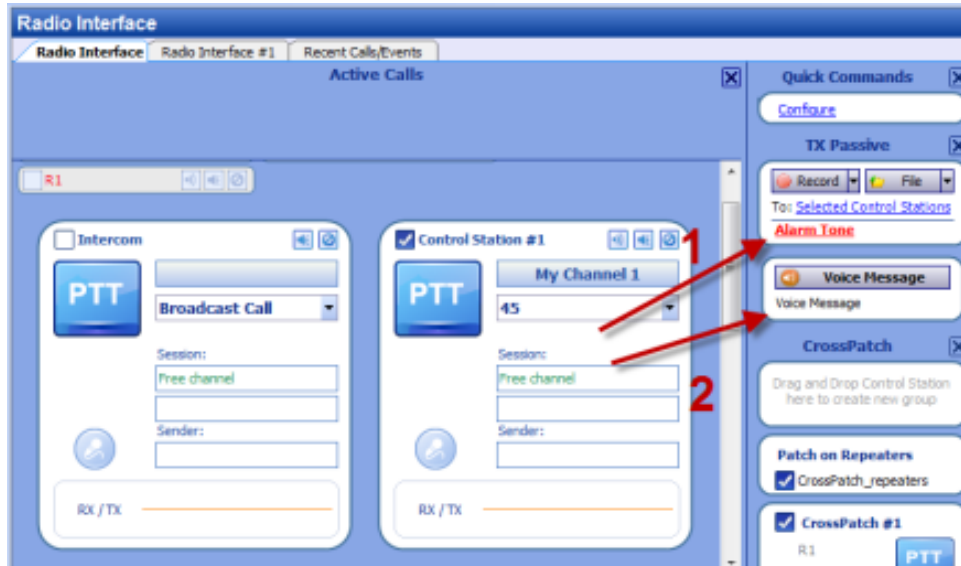
Hot Key – select the Voice Message and click in the «Hot Key» column. Then press «Hot Key» button:



When the informational message appears press any key on the keyboard to set it as **Hot Key** for selected Voice Message.

Visibility – select the Voice Message box view:

- **Hidden** – select to hide the Voice Message box;
- **Button** – select to display the Voice Message as a link on TX Passive panel (1);
- **Panel** – select to display the Voice Message as a separate panel with button (2).



Click «OK» to add the Voice Message.

8. /9. Large PTT Boxes / Small PTT Boxes – select PTT Boxes size.

10. Show Active Calls Panel – select to display Active Calls Panel in the Dispatch Console.

11. Show Quick Commands Panel – select to display Quick Commands Panel in the Dispatch Console.

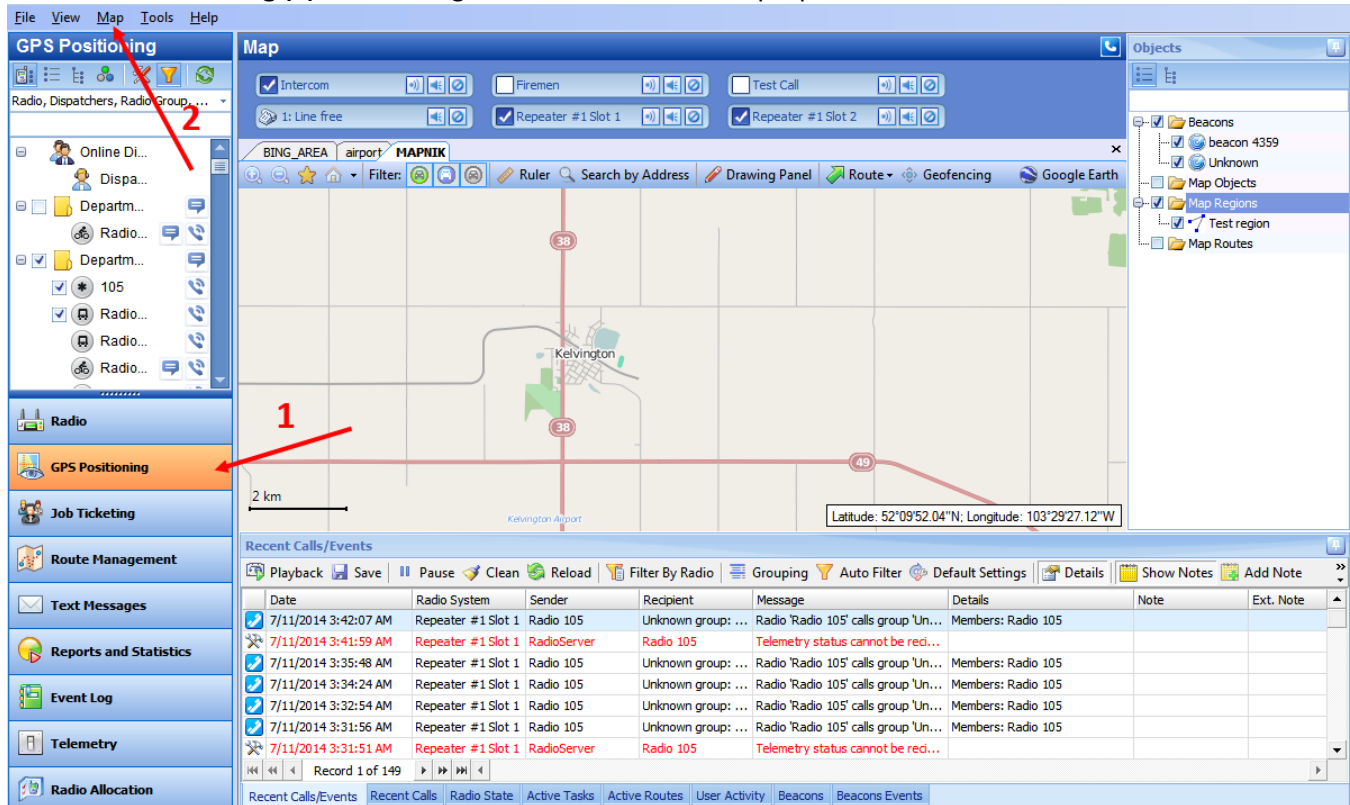
12. Show TX Passive Panel – select to display TX Passive Panel in the Dispatch Console.

13. Show Cross Patch Panel – select to display Cross Patch Panel in the Dispatch Console.

14. Show Extended Messages Tab – select to display Extended Messages Tab in the Dispatch Console.

Map

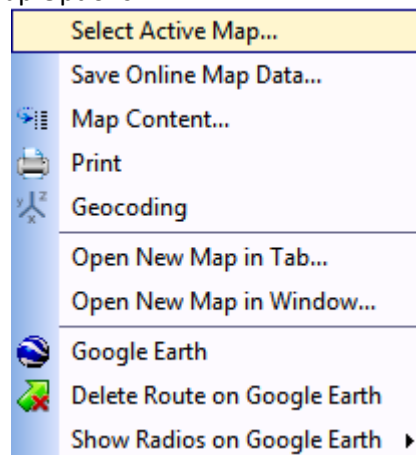
Select **GPS Positioning (1)** in the Navigation Pane to enable Map Options:



The screenshot shows the TRBOnet software interface. The left navigation pane has a red arrow pointing to the 'GPS Positioning' option, labeled with a red '1'. The top menu bar has a red arrow pointing to the 'Map' option, labeled with a red '2'. The main map area displays a map of Kelvington with a red line and a scale bar. The bottom pane shows a table of recent calls/events.

Date	Radio System	Sender	Recipient	Message	Details	Note	Ext. Note
7/11/2014 3:42:07 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:41:59 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			
7/11/2014 3:35:48 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:34:24 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:32:54 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:56 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:51 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			

Click «Map» button (2) to open the Map Options:



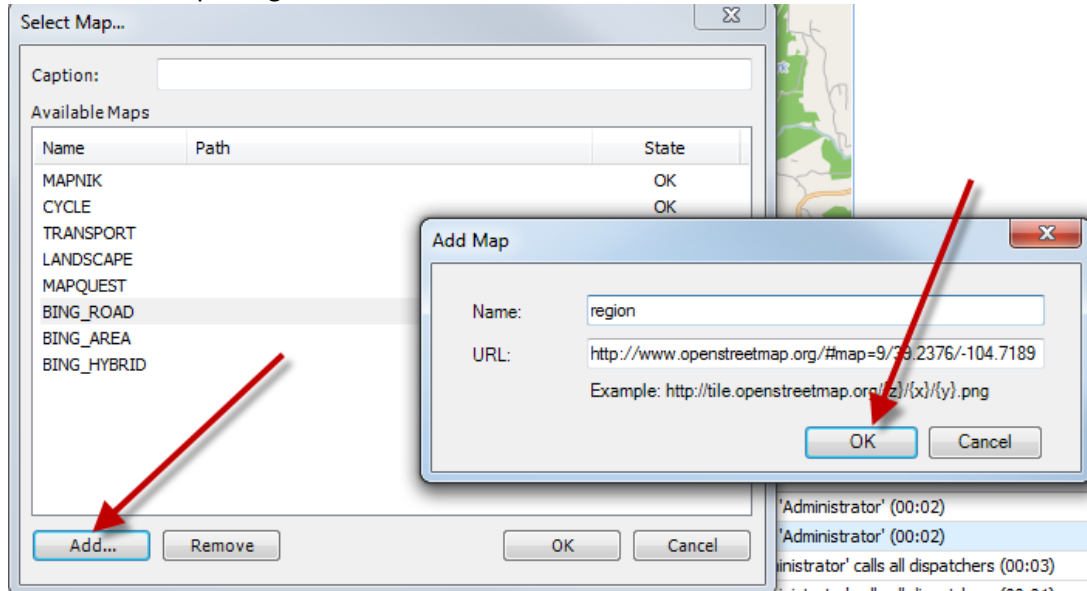
The screenshot shows the Map Options menu. The menu items are:

- Select Active Map...
- Save Online Map Data...
- Map Content...
- Print
- Geocoding
- Open New Map in Tab...
- Open New Map in Window...
- Google Earth
- Delete Route on Google Earth
- Show Radios on Google Earth ▶

1. Select Active Map

Click to select a map to display radios. Type in the **Caption** for the Map to display as map tab title and select map in the list of available maps.

User can add a custom map using its URL:



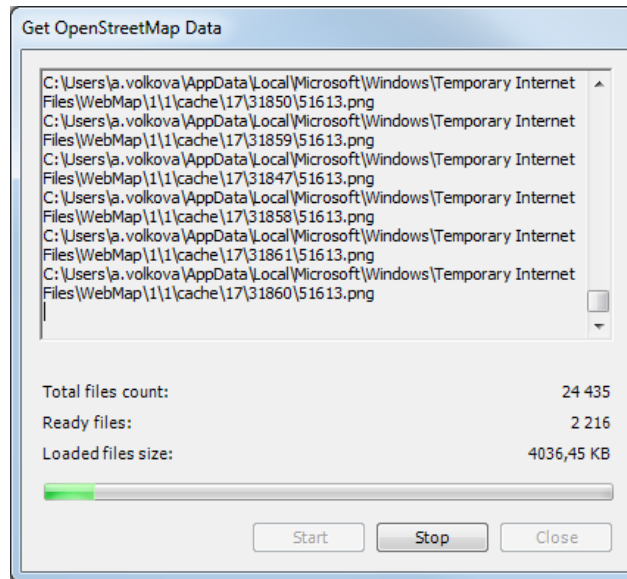
Click «**Add**» button, type in the **Name** for new map and specify the **URL**. Type in map URL, as shown in the example below, in the URL field.

- **Z** – zoom. Type in zoom value for the map.
- **X** – coordinate in X –direction.
- **Y** – coordinate in Y – direction.

Click «**OK**» to add a map.

Note: You can only select the map of the same format the current tab map is. For example, if You click «**Map**» button, then **Select Active Map** in a tab with Open Street Map format map, the Select Map... window will display the available Open Street Map format maps. Thus, if you need to select another format map, use the **Map, Open Map in Tab** or the **Map, Open Map in Window** option.

2. Save online map data – select the map region you need to save the map starting from and select Save online map data:

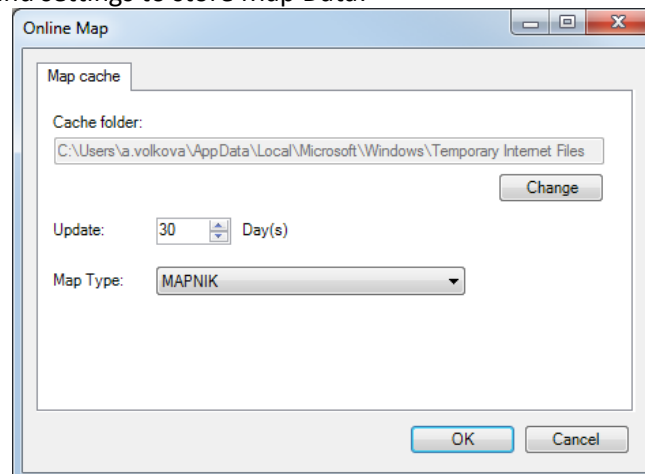


Click «**Start**» button and wait for the system to save the files in the Cache folder . The procedure may take several minutes.

Note: The system will cash the map «downwards» which means User will not be able to zoom out the selected region in offline mode. To zoom the offline map see the following article
<http://kb.trbonet.com/public.pl?Action=PublicFAQZoom;ItemID=27>

3. Map Content

Select to specify the folder and settings to store Map Data:



- **Cache folder** – click «**Change**» button to select the folder on the PC to store the Map Data;
- **Update** – select data updating period;

Note: when «0» value selected, the map will not update.

- **Map Type** – select your Map type in the dropdown list. For more details on maps used in TRBOnet Dispatch Software see [Map Types](#) section.

Click «**OK**» to save map cache settings.

Map Types

Online maps:

- **OpenStreetMaps** – free online map. Includes MAPNIK, CYCLE, TRANSPORT, LANDSCAPE and MAPQUEST subtypes. *For more details on OpenStreetMaps visit official web site:* <http://www.openstreetmap.org>
- **Microsoft BING** – commercial maps from Microsoft. Includes BING_ROAD, BING_AREA and BING_HYBRID subtypes. User can try BING Maps for 90 days and then get a Basic Key. Visit <http://msdn.microsoft.com/en-us/library/ff428642.aspx> to get a Basic Key.

Offline Maps

- **TRBOnet** – internal map-making resource. User can customize a part of online maps according to requirements. *For more details on map calibration go to TRBOnet knowledge base and read the following article:* <http://kb.trbonet.com/public.pl?Action=PublicFAQZoom;ItemID=27>.
- **TMap** – internal map-making resource. User can create an offline copy of online maps for selected region according to requirements. User can create a map using any picture via TRBOnet.MapEdit tool. Go to %ProgramFiles%\Neocom Software\TRBOnet Dispatch Software\TRBOnet.MapEdit.exe. *For more details on map calibration go to TRBOnet knowledge base and read the following article:* <http://kb.trbonet.com/public.pl?Action=PublicFAQZoom;ItemID=28>.
- **GIS Panorama** – offline Russian map. *For more details visit the official web site:* <http://www.gisinfo.ru/>
- **Beacon 2D** – two-dimension offline map for Indoor positioning. User can create maps using Beacon2DMapGenerator tool. To get Beacon2DMapGenerator contact your local TRBOnet dealer.
- **Beacon 3D** – tree-dimension map for Indoor positioning. User can use any dicectX(.x) files as map.
- **MapLib map format** – free offline map. Requires a lot of internal memory. Requires Franson GPSTools. *For more details on Franson GPSTools visit the official web site:* <http://franson-gpstools.software.informer.com/2.3/>
- **TatukGIS** – commercial offline map. *For more details on TatukGIS visit the official web site:* <http://www.tatukgis.com/>.

4. Print

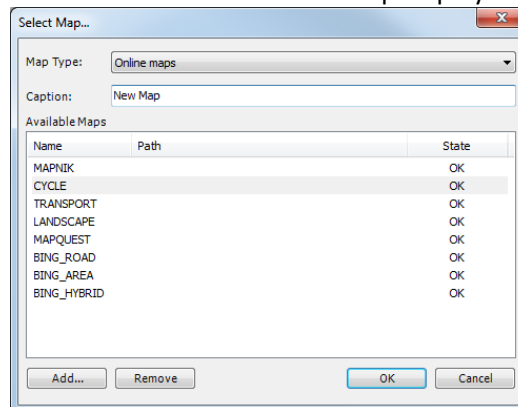
Select to print the region. Select printer and set its parameters. Click «OK» to print.

5. Geocoding

Geocoding server resolves GPS coordinates to street names and address for reports and other needs, for example in “GPS activity for period” reports. Online geocoding services can be used like Google or Nominatim, but they are not for free or limited by amount or requests. Also, custom geocoding server can be configured.

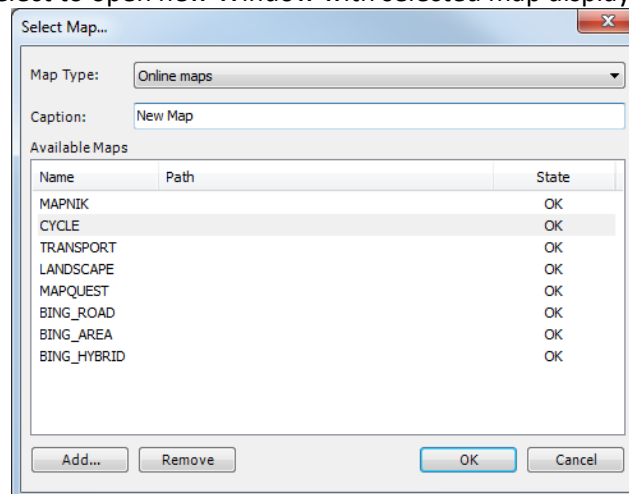
For more details on geocoding configuration see [TRBOnet Administration Guide](#), **Map Servers for Geocoding** section.

6. Open Map in Tab – select to add the new tab with selected map displayed:

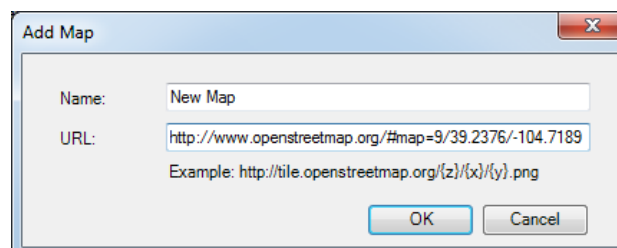


- **Map Type** – select Map Type in the Dropdown List;
- **Caption** – specify the caption for the new map. New Tab Name will be the same as Caption;

7. Open Map in Window – select to open new Window with selected map displayed:



- **Map Type** – select Map Type in the Dropdown List;
- **Caption** – specify the caption to display as map tab title. New Tab Name will be the same as Caption;
- **Available Maps** – select map in the table. User can add a map using its URL:



Click «Add» button, type in the Name for new map and specify the URL.

Click «OK» to open the window with new map.

8. Google Earth – TRBOnet Dispatch Software supports Google Earth software. Go to [Map](#), **Google Earth** to open the application.

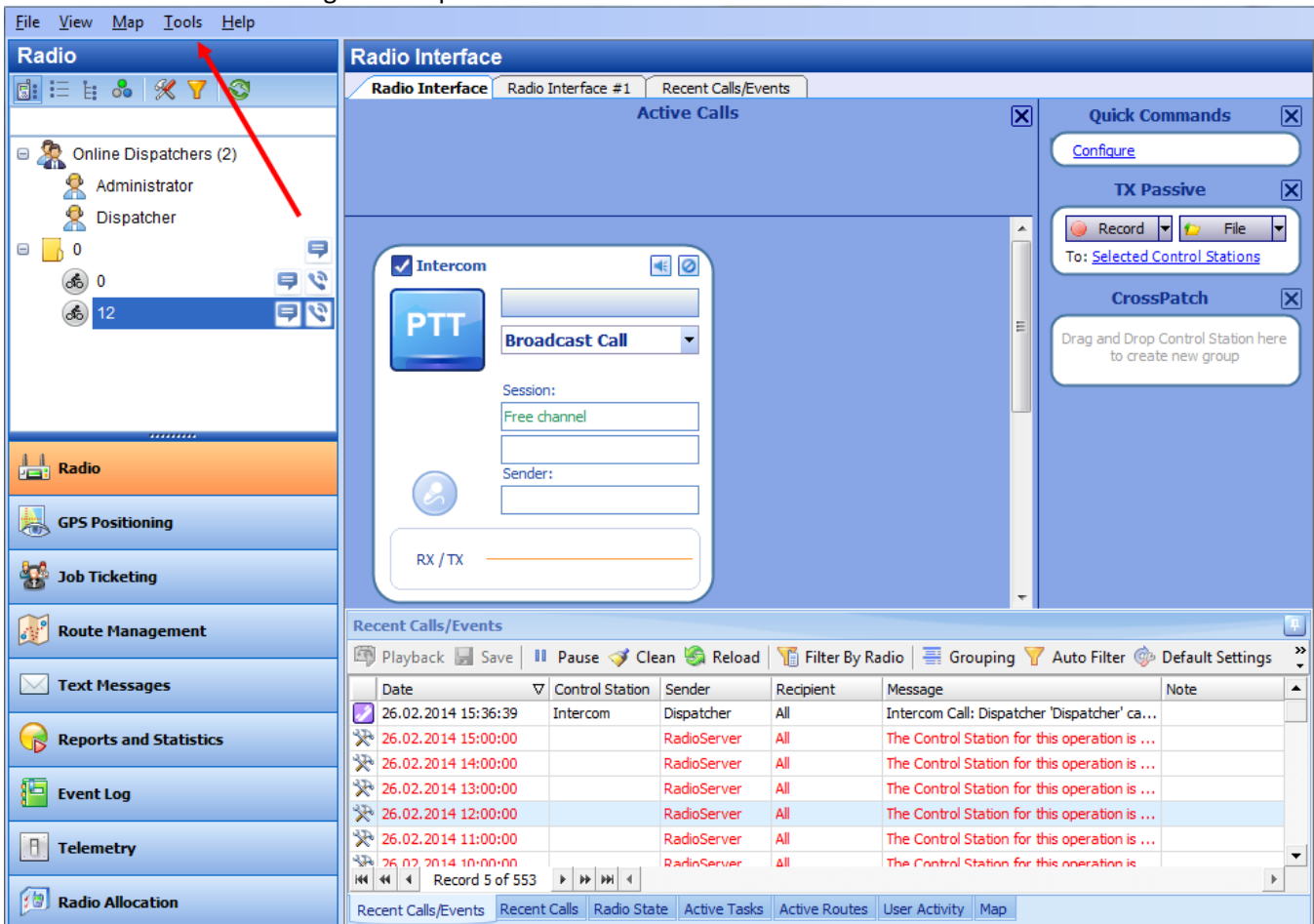
Note: Google Earth should be installed on the PC. *For more information about working in Google Earth visit Google official website <http://www.google.co.uk/earth>*

9. Delete Routes from Google Earth – select to delete all routes from Google Earth.

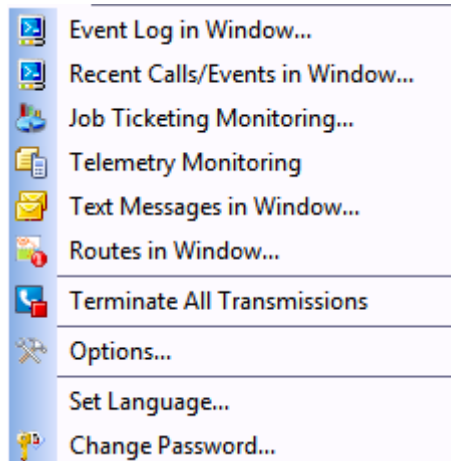
10. Show Radios on Google Earth – select radio's type to display on Google Earth.

Tools

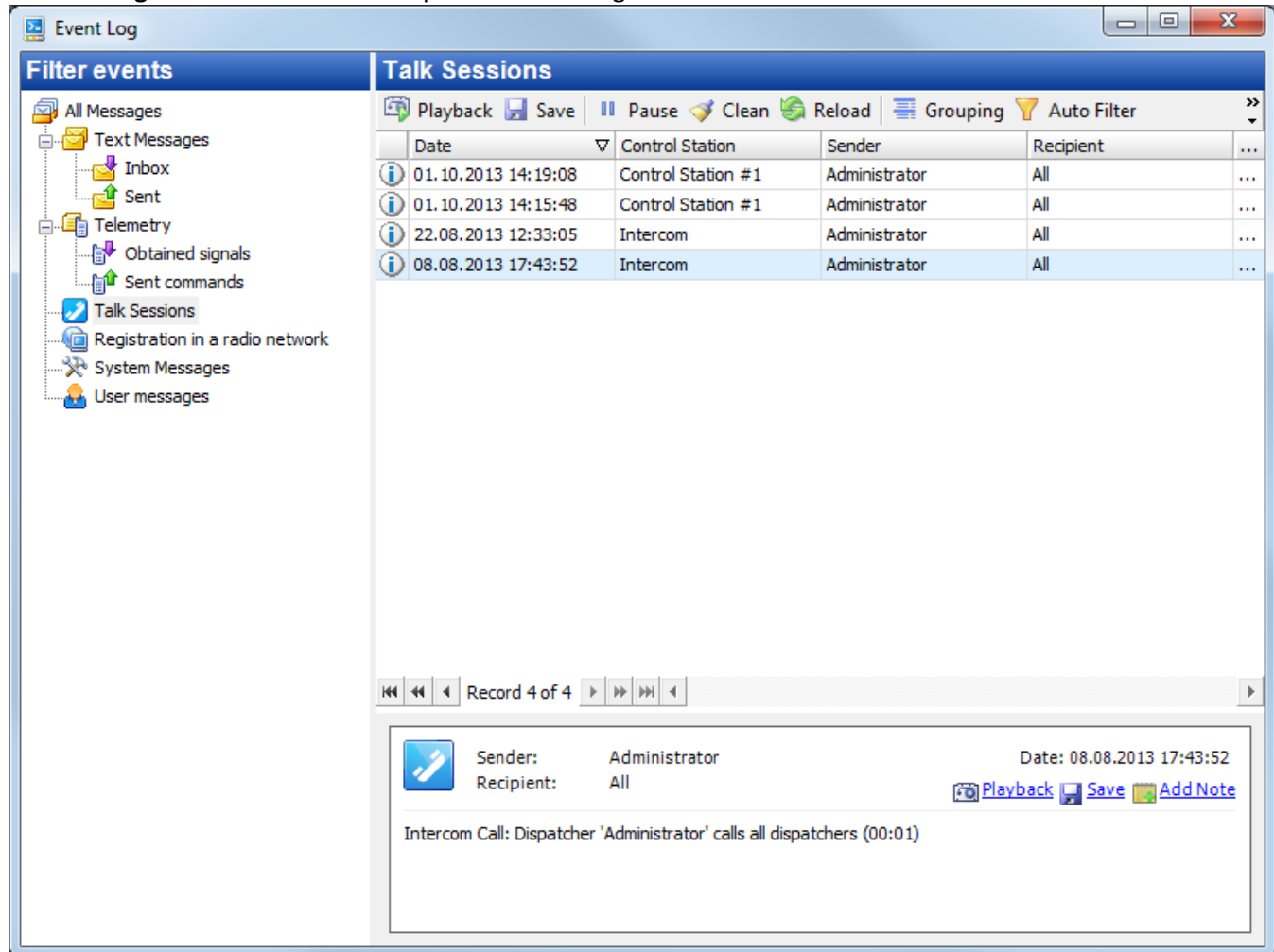
Select **Tools Menu** to manage the Dispatch Console:



Click «Tools» button to open the Context menu:



1. Event Log in Window – select to open the Event Log in the new Window:



The screenshot shows the 'Event Log' window. On the left is a 'Filter events' tree with categories like All Messages, Text Messages, Telemetry, and Talk Sessions. The 'Talk Sessions' category is selected. The main area displays a table of talk sessions. Below the table is a navigation bar showing 'Record 4 of 4'. At the bottom, a detailed view of the selected event is shown, including the sender, recipient, date, and a description of the call.

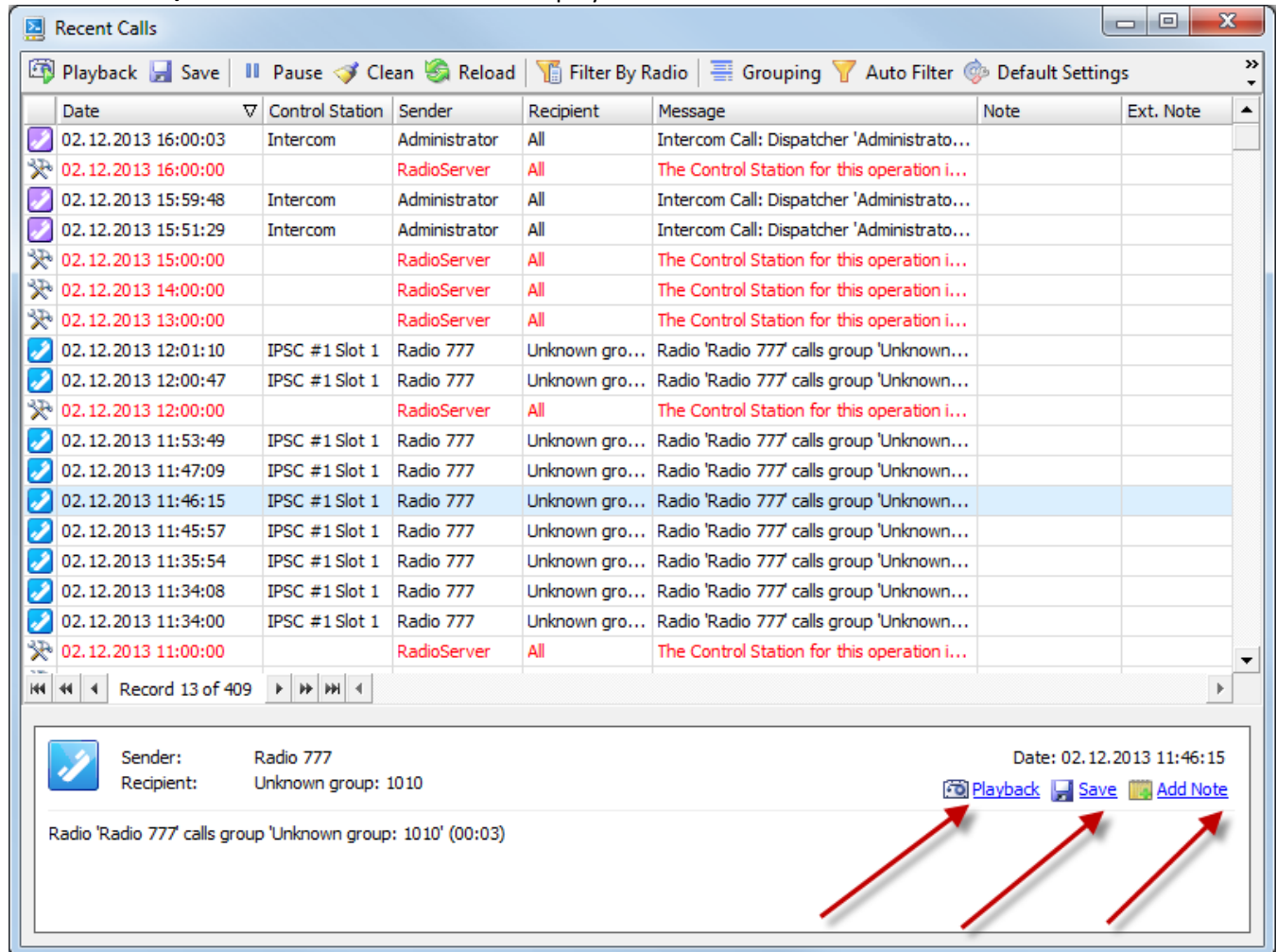
Date	Control Station	Sender	Recipient
01.10.2013 14:19:08	Control Station #1	Administrator	All
01.10.2013 14:15:48	Control Station #1	Administrator	All
22.08.2013 12:33:05	Intercom	Administrator	All
08.08.2013 17:43:52	Intercom	Administrator	All

Record 4 of 4

Sender: Administrator
 Recipient: All
 Date: 08.08.2013 17:43:52
[Playback](#) [Save](#) [Add Note](#)

Intercom Call: Dispatcher 'Administrator' calls all dispatchers (00:01)

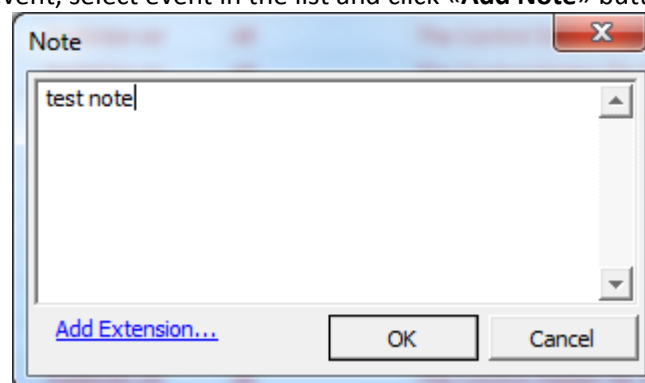
2. Recent Calls/Events in Window – select to display recent calls and events in window:



The 'Recent Calls' window displays a list of calls with columns: Date, Control Station, Sender, Recipient, Message, Note, and Ext. Note. The list shows various calls from 02.12.2013. The selected call (02.12.2013 11:46:15) is highlighted in blue. Below the list, the detailed view shows the Sender (Radio 777), Recipient (Unknown group: 1010), and Date (02.12.2013 11:46:15). The message text is 'Radio 'Radio 777' calls group 'Unknown group: 1010' (00:03)'. At the bottom right of the detailed view, there are three buttons: Playback, Save, and Add Note, each with a red arrow pointing to it.

Click «**Playback**» button to playback recorded calls;
 Click «**Save**» button to save calls as audio files (*.wav);

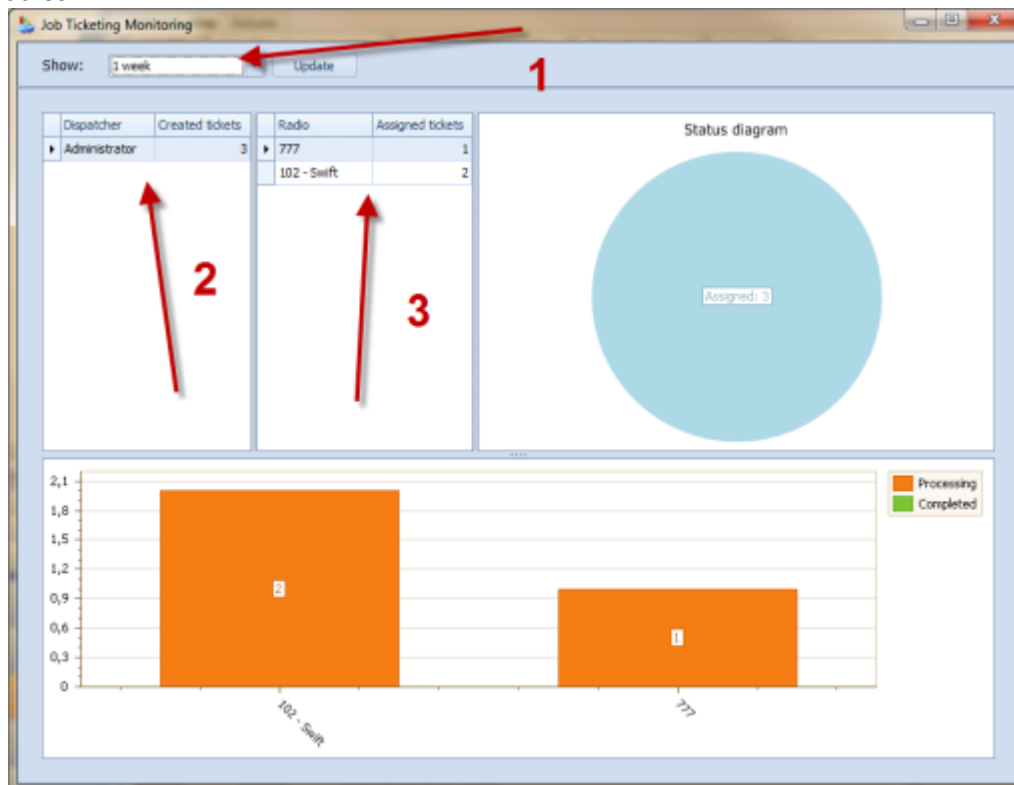
Notes can be added to the event, select event in the list and click «**Add Note**» button:



The 'Note' dialog box has a text area containing 'test note'. At the bottom, there is a link 'Add Extension...', an 'OK' button, and a 'Cancel' button.

Type in note text in the field.
 Click «**OK**» to add a note.

3. Job Ticketing Monitoring – select to monitor all Job Tickets in the system, created by Dispatchers and assigned to Radios:



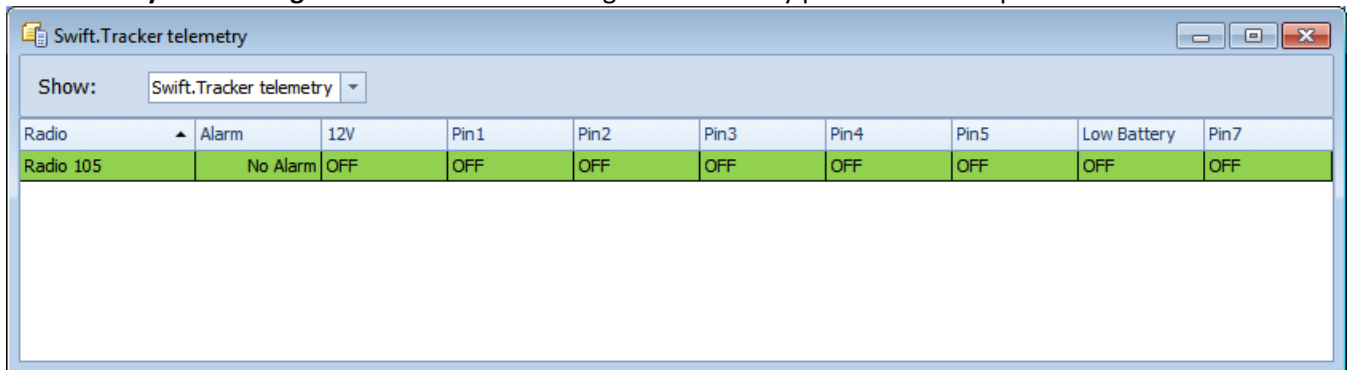
1 – select time period to show Job Ticketing data;

2 – monitor tasks created by Dispatchers;

3 – monitor tasks, assigned to radios.

All tasks data is shown graphically and in the form of the Status Diagram.

4. Telemetry Monitoring – select to monitor configured telemetry profiles in the separate window:



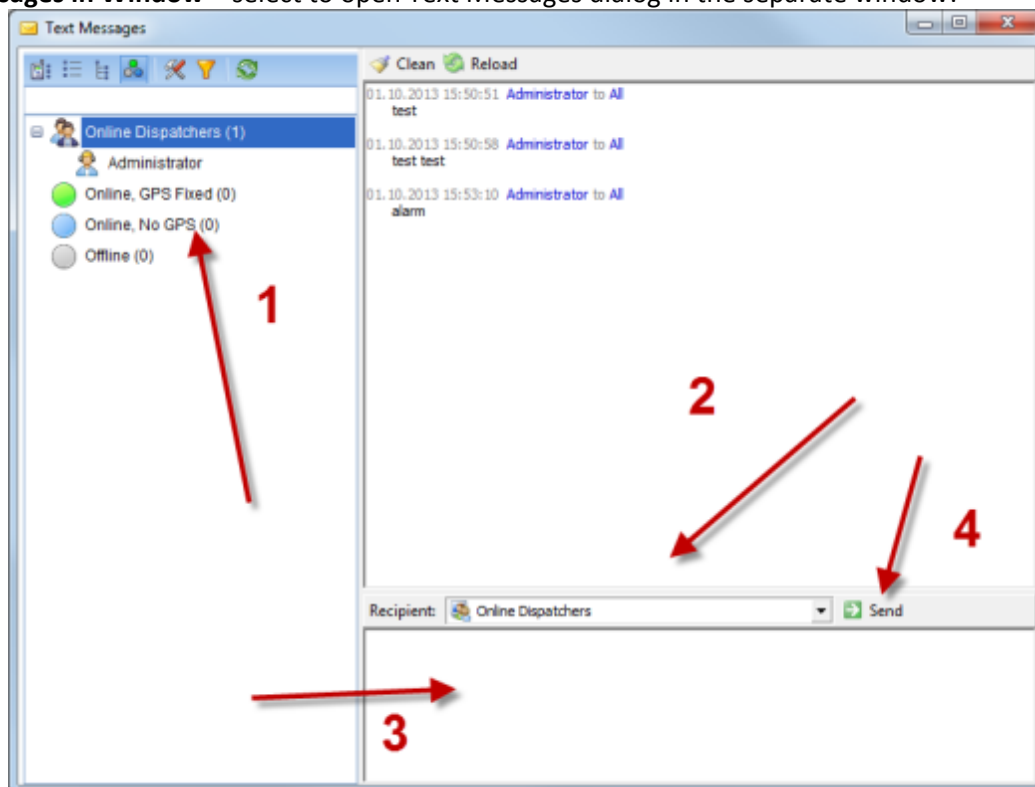
Swift.Tracker telemetry

Show: Swift.Tracker telemetry

Radio	Alarm	12V	Pin1	Pin2	Pin3	Pin4	Pin5	Low Battery	Pin7
Radio 105	No Alarm	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

- **Show** – select telemetry profile to display the data.

5. Text Messages in Window – select to open Text Messages dialog in the separate window:



- 1 – User can see Online Dispatchers in the list;
 - 2 – Select the Recipient in the dropdown list. User can select all online Dispatchers, radio groups and radios registered in the system;
 - 3 – Type in Text Message in the field;
- Click «**Send**» button to send the Text Message.
 The text Message will be displayed in the field above.

6. Route Management – select to display Route Management page. *For more details on Route Management configuration see [Route Management](#) section.*

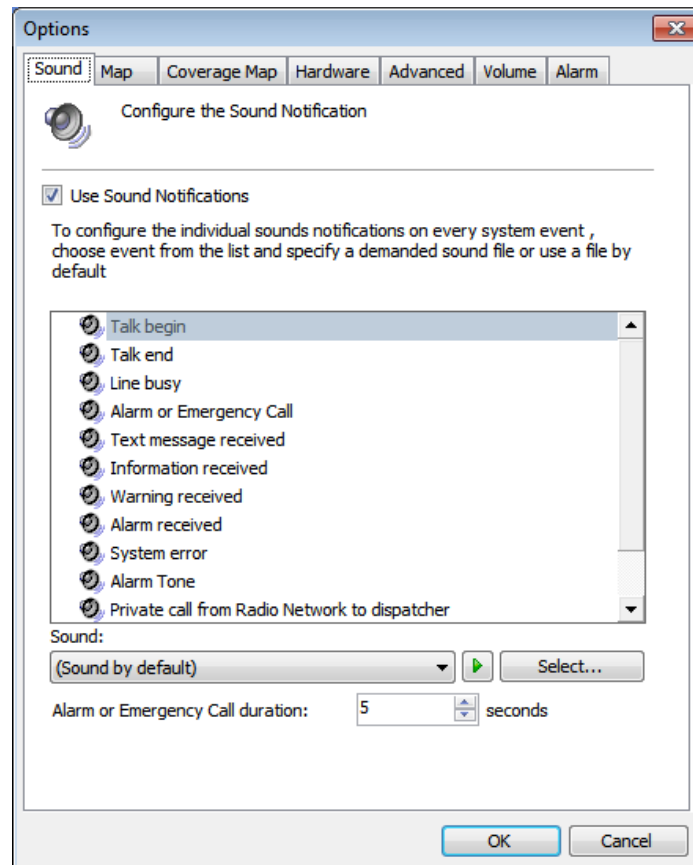
7. Terminate All Transmissions – select to terminate all Voice calls in the system. This action is a “hard” inquiry to stop all transmission in TRBOnet software and is intended to stop any “hanged” transmission in TRBOnet. If radio communication session does not allow to be interrupted on a repeater or base station it will be interrupted for radio, but for TRBOnet software only.

Options

Select to customize Console Settings.

Sound

Go to **Sound** Tab to configure Sound Notifications:




- **Use Sound Notifications** – check this option to enable sound notifications in Dispatch Console.

Choose the event in the list and specify the sound.

Sound:

- Select **Sound by default** in the dropdown list to set the default sound for the event.
- Select **Disabled** to disable sound notification for the event.

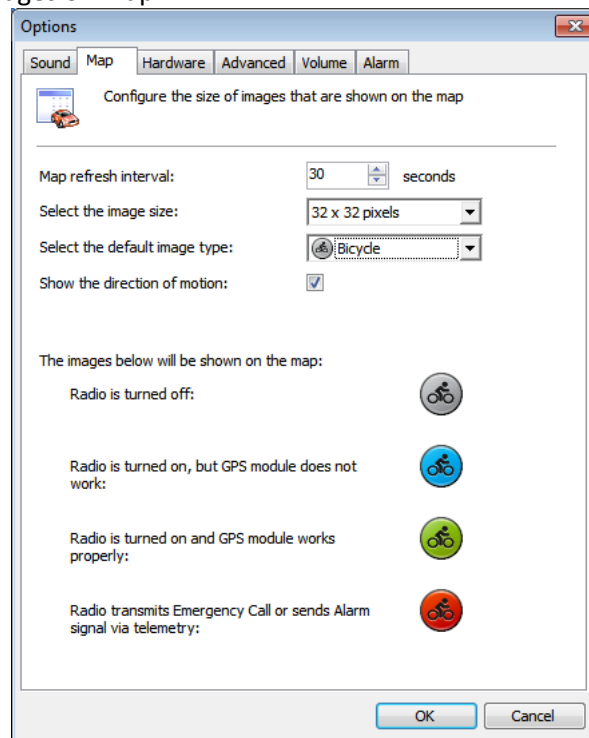
Click  button to listen to the current sound notification.

Click «**Select**» button to browse the sound on your PC.

- **Alarm of Emergency Call duration** – select time value in seconds for Alarm Tone when Emergency Call received.

Map

Go to **Map** Tab to configure images on map:



- **Map refresh interval** – type in time period to update map data;
- **Select the image size** in the dropdown list;
- **Select the default image type** – in the dropdown list;
- **Show the direction of motion** – select to monitor objects' motion.

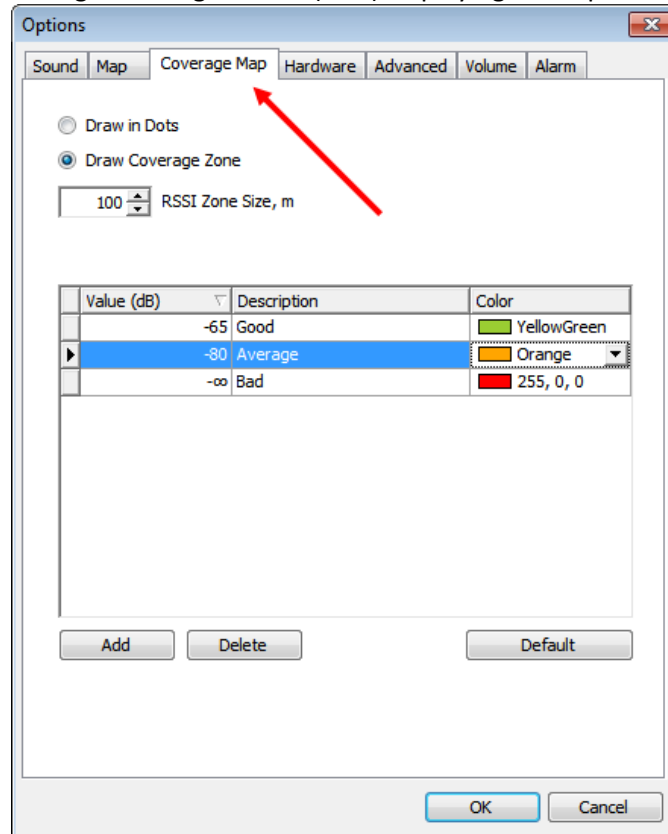
Coverage Map

TRBOnet Dispatch Software allows to see RSSI levels on a map.

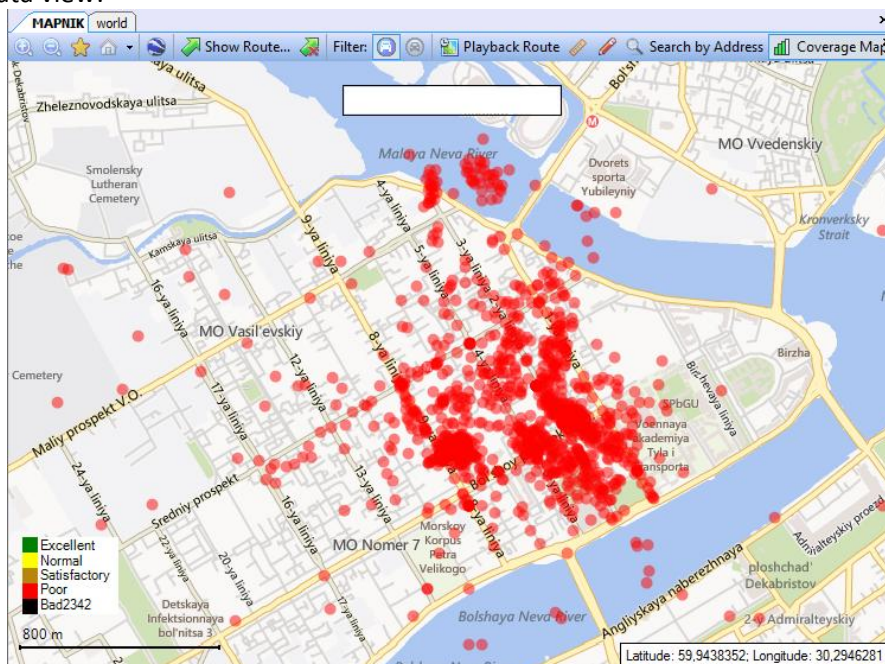
RSSI - received signal strength indicator. Measures radio signal loss from one map point to another.

RSSI map can be used by radio systems engineers to plan further radio network extension.

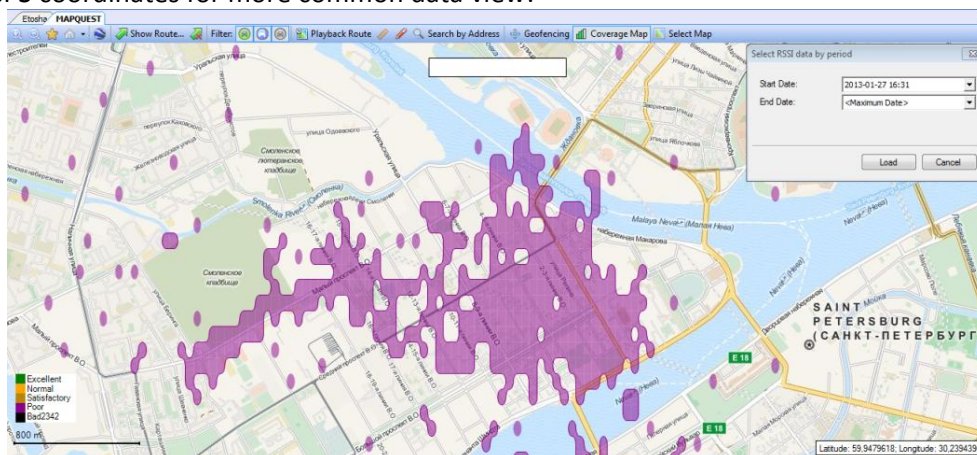
Go to **Coverage Map** tab to set signal strength levels (RSSI) displaying on map:



- **Draw in Dots** – select to display RSSI level on map as dots that represent coordinates points for more detailed data view:



- **Draw Coverage Zone** – select to configure RSSI zone in meters and display on map average data of RSSI level GPS coordinates for more common data view:



Click «**Add**» button to add new RSSI level.

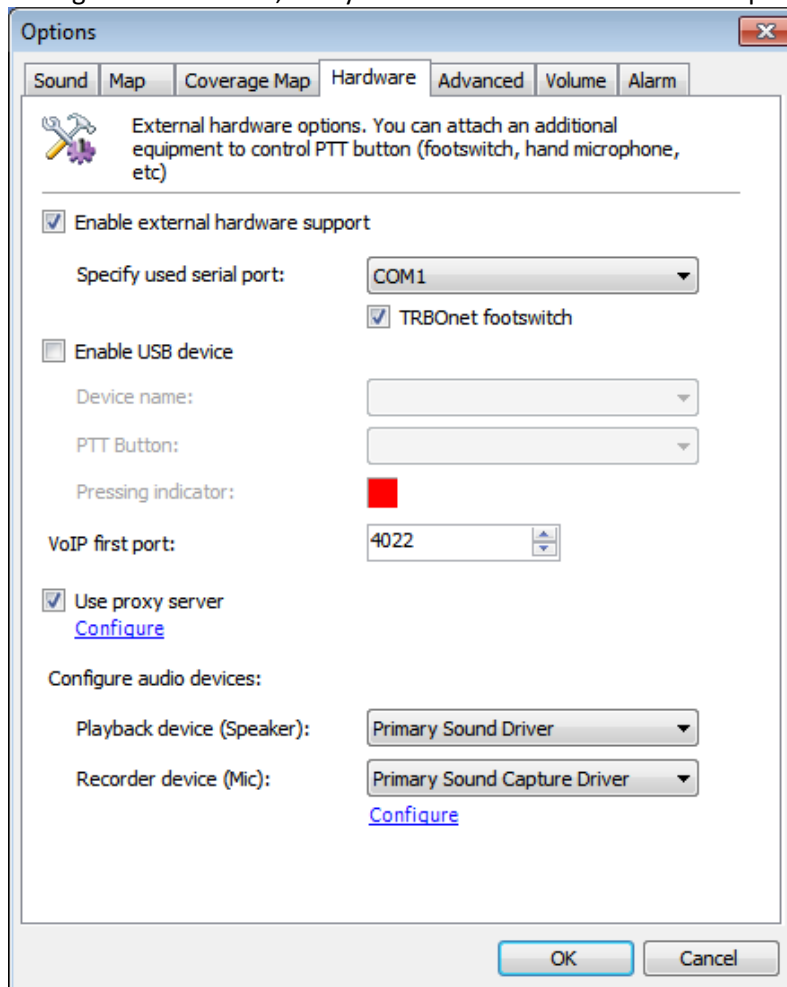
Set RSSI level parameters:

- **Value** – set the minimum level for the signal range (e.g., -65 means -65 and higher);
- **Description** – input level name to display in the system;
- **Color** – click to select color for RSSI indication on map.

To view RSSI levels on map go to GPS Positioning page and enable «**Coverage Map**» on Map Tools panel. Set **Start Date** and **End Date** to display RSSI data.

Hardware

Go to **Hardware** tab to configure USB devices, Proxy Server and active audio device options:



Options

Sound | Map | Coverage Map | **Hardware** | Advanced | Volume | Alarm

External hardware options. You can attach an additional equipment to control PTT button (footswitch, hand microphone, etc)

☒ **Enable external hardware support**

Specify used serial port: COM1

☒ **TRBOnet footswitch**

☐ **Enable USB device**

Device name: [dropdown]

PTT Button: [dropdown]

Pressing indicator: [red square]

VoIP first port: 4022

☒ **Use proxy server**
[Configure](#)

Configure audio devices:

Playback device (Speaker): Primary Sound Driver

Recorder device (Mic): Primary Sound Capture Driver
[Configure](#)

OK Cancel

Enable external hardware support – select to use external hardware devices, e.g. mic connectors. Select a port where device is connected to.

- **TRBOnet footswitch** – select if you are going to use TRBOnet footswitch as PTT button.

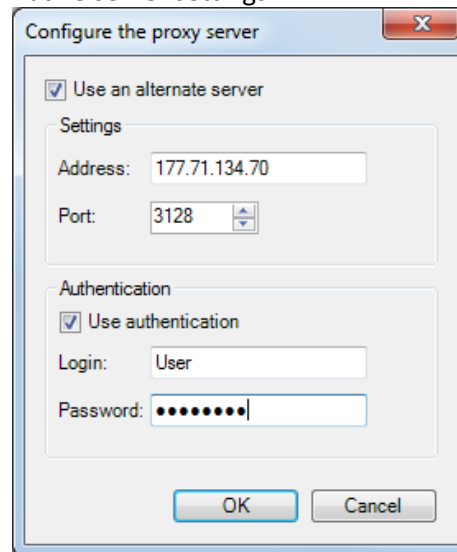
Enable USB device – check to enable support USB devices (e.g. USB connected microphones).

Connect a microphone to PC via USB device. Go to [Options](#), **Hardware**. Check **Enable USB Device**.

- **Device name** – select microphone name in the dropdown list;
- **PTT button** – all available PTT buttons are represented in the dropdown list. Select PTT button in the dropdown list and Press the PTT button on the microphone. When microphone PTT and PTT button in Dispatch Console are set up correctly, Pressing Indicator becomes green.
- **VoIP first port** - port for audio communication. Specify VoIP first port (4022 set by default). Each additional Dispatch Console will create connection to next port;

Use proxy server – select to enable Proxy Server service in TRBOnet Dispatch Software to access the Internet. Proxy server can be used when a user's computer cannot be connected directly to the Internet, but there is another computer with Internet access in the network.

Click «**Configure**» button to set the alternative server settings:



- **Use an alternate server** – select to enable a proxy server;
 - **Settings** – specify the alternate server address and port;
- Authentication**
- **Use authentication** – select to use individual login and password to connect to the alternate server. Click «**OK**» to add the proxy server.

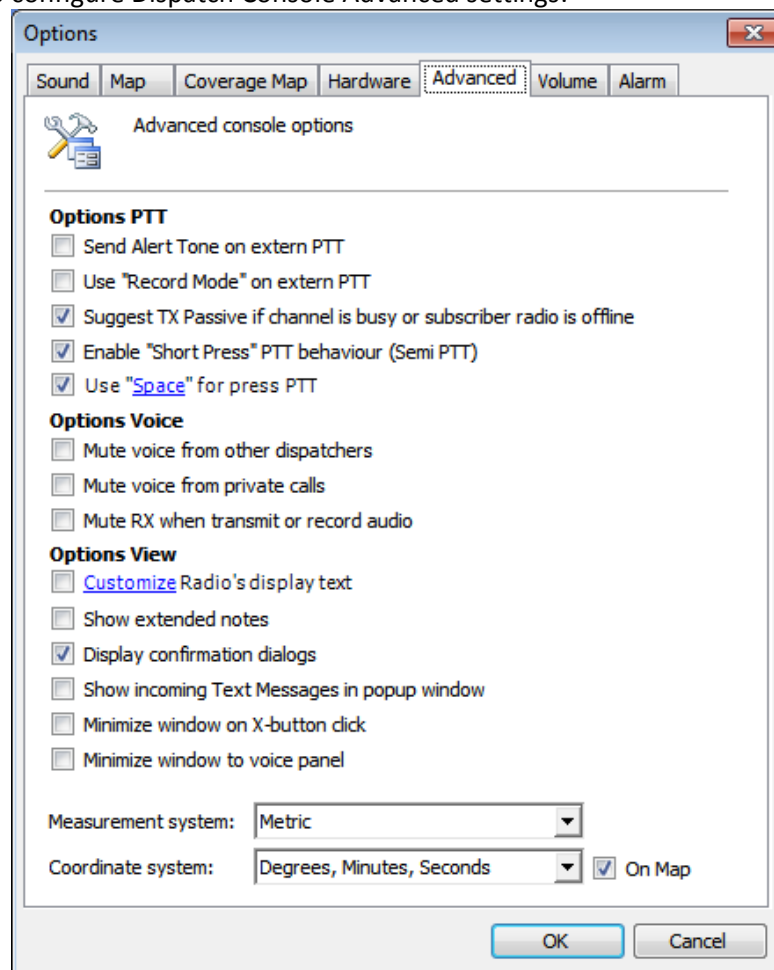
Configure audio devices

- **Playback device** - select the audio device for to play incoming voice messages and playback voice recordings in Dispatch Console;
- **Recorder device** - select the recording device where the microphone is connected.

Note: If Dispatch Console is running on the same PC with TRBOnet RadioServer connected to control stations via programming cable and sound card, playback and recorder devices cannot be the same for Dispatch Console and TRBOnet RadioServer.

Advanced

Go to **Advanced** Tab to configure Dispatch Console Advanced settings:



Options PT T

- **Send Alert Tone on extern PT T** – select to enable Alert Tone for all subscribers on a channel when Dispatcher presses PT T button;
- **Use «Record Mode» on extern PT T** – check to record all voice transmissions from external PT T devices (palm mics, Footswitches etc.)
- **Suggest TX Passive if channel is busy or subscriber radio is offline** – select to record a TX Passive Voice Message for a Radio channel is busy or subscriber is offline (see TX Passive configuration page);
- **Enable «Short Press» PT T behavior (Semi PT T)** – select to start and finish Voice Calls by short PT T pressing instead of keeping PT T pressed during the whole Voice Call;
- **Use «Space» for press PT T** – select to set a key for press PT T. Click the highlighted hot key link to set a key. When the informational message appears press any key on the keyboard to set it as PT T.

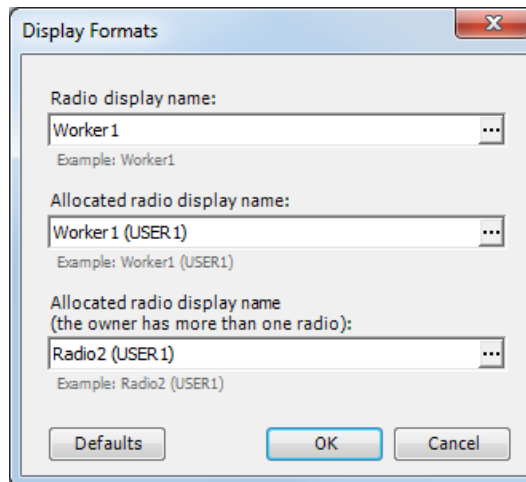
Options Voice

- **Mute voice from other Dispatchers** – select to mute all other Dispatchers' voice transmissions;
- **Mute voice from Private Calls** – select to mute all Private Calls on the channel;
- **Mute RX when transmit or record audio** – select to mute all Voice Notifications when Dispatcher transmits or records audio.

Options View

- **Customize Radio display text** – select to set a custom alias for Radio in the list of subscribers.

Click «**Customize**» button:




The 'Display Formats' dialog box contains three text input fields, each with an 'Example' label below it and an ellipsis button to the right of the input field.

- Radio display name:** The input field contains 'Worker1'. The example below is 'Worker1'.
- Allocated radio display name:** The input field contains 'Worker1 (USER1)'. The example below is 'Worker1 (USER1)'.
- Allocated radio display name (the owner has more than one radio):** The input field contains 'Radio2 (USER1)'. The example below is 'Radio2 (USER1)'.

At the bottom of the dialog are three buttons: 'Defaults', 'OK', and 'Cancel'.

- ✓ **Radio display name** – specify a custom alias for selected radio;
- ✓ **Allocated radio display name** - specify a custom alias for selected radio in the Allocation Console;
- ✓ **Allocated radio display name (the owner has more than one radio)** - specify a custom alias for selected radio in the Allocation Console in case when user has more than one radio.

Click  button to add more information about Radio:

- ✓ **Radio Callsign** – select to add a Radio Callsign;
- ✓ **Radio Owner name** – select to add an Owner name;
- ✓ **Radio ID** – select to add radio ID data;
- ✓ **Active Channel** – select to add an Active Channel for Radio.

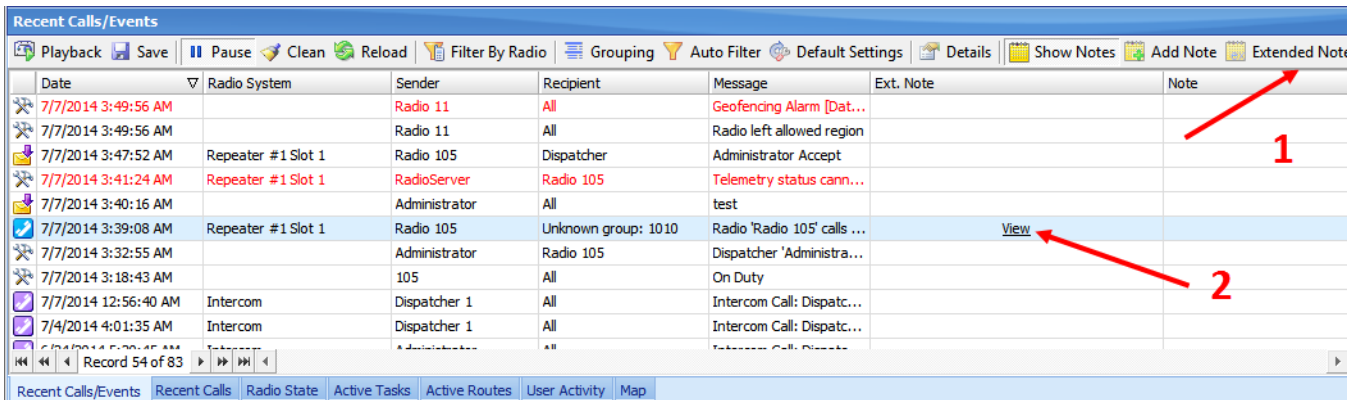
Click «**Default**» button to set default settings for Radio Display.

- **Show Extended Nodes** – select to enable Extended Nodes in the Dispatch Console.

Extended Nodes feature is intended to add predefined Extended Notes templates, the same as for Extended Messages, for selected calls and events.

For more details on Templates creation see [TRBOnet Administration Guide Template Maker](#) section.

E.g., Taxi Dispatcher needs to check clients' calls response period for the company internal monitoring of the employees. He can add a predefined template and check the time period. All Extended Notes are displayed in the Extended Notes column:

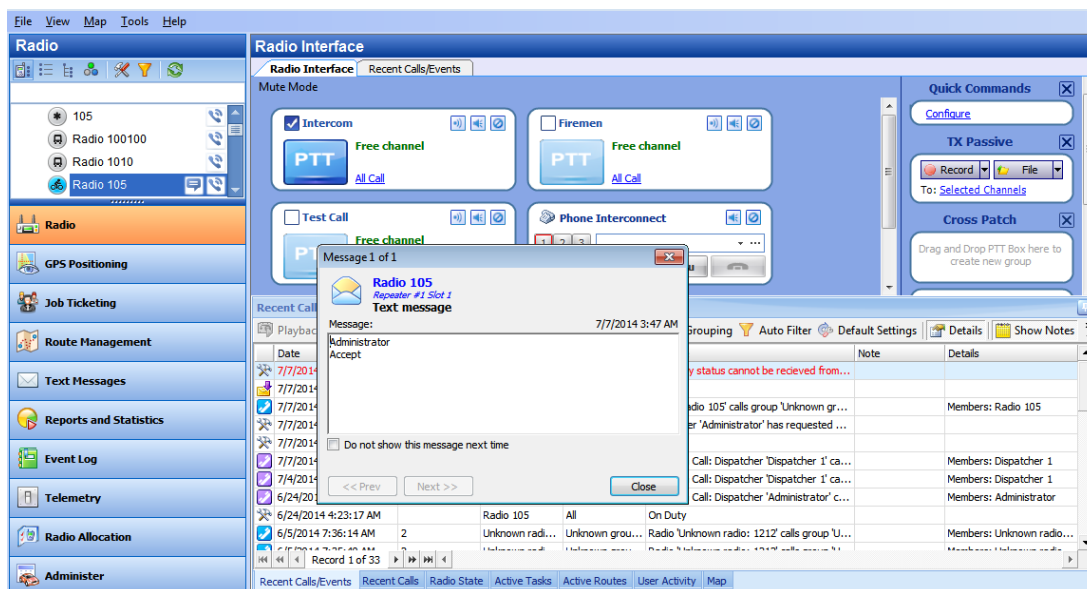


Date	Radio System	Sender	Recipient	Message	Ext. Note	Note
7/7/2014 3:49:56 AM		Radio 11	All	Geofencing Alarm [Dat...		
7/7/2014 3:49:56 AM		Radio 11	All	Radio left allowed region		
7/7/2014 3:47:52 AM	Repeater #1 Slot 1	Radio 105	Dispatcher	Administrator Accept		
7/7/2014 3:41:24 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cann...		
7/7/2014 3:40:16 AM		Administrator	All	test		
7/7/2014 3:39:08 AM	Repeater #1 Slot 1	Radio 105	Unknown group: 1010	Radio 'Radio 105' calls ...	View	
7/7/2014 3:32:55 AM		Administrator	Radio 105	Dispatcher 'Administra...		
7/7/2014 3:18:43 AM		105	All	On Duty		
7/7/2014 12:56:40 AM	Intercom	Dispatcher 1	All	Intercom Call: Dispatc...		
7/4/2014 4:01:35 AM	Intercom	Dispatcher 1	All	Intercom Call: Dispatc...		

Click «**Extended Notes**» button (1) to fill the template;

Click «**View**» button (2) to see the Extended Note.

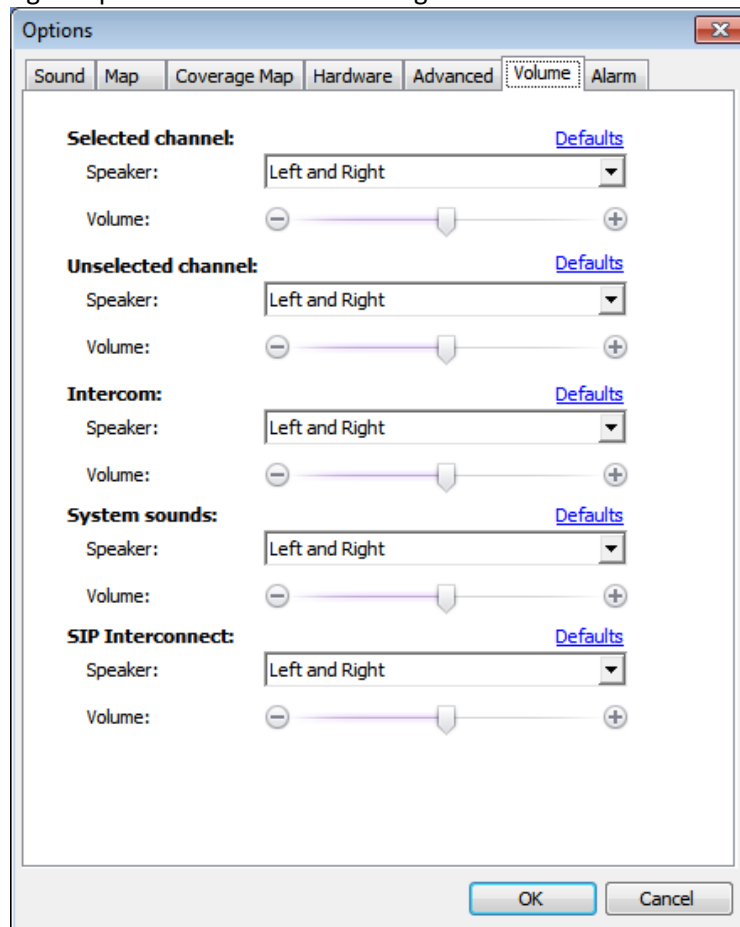
- **Display confirmation dialogs** – select to enable dialogs to confirm Dispatcher actions with Confirmation dialogs required (e.g. send configured Voice Message from Dispatch Console);
- **Show incoming Text Messages in popup window** – select to optimize incoming Text Messages view:



- **Minimize window on X-button click** – select to use close-button to minimize Dispatch Console;
- **Measurement system** – select Metric or American measurement system in the dropdown list.
- **Coordinate system** – select coordinate system in the dropdown list. **On Map** – select to display coordinates on the map.

Volume

Go to **Volume** Tab to configure speakers and volume settings:



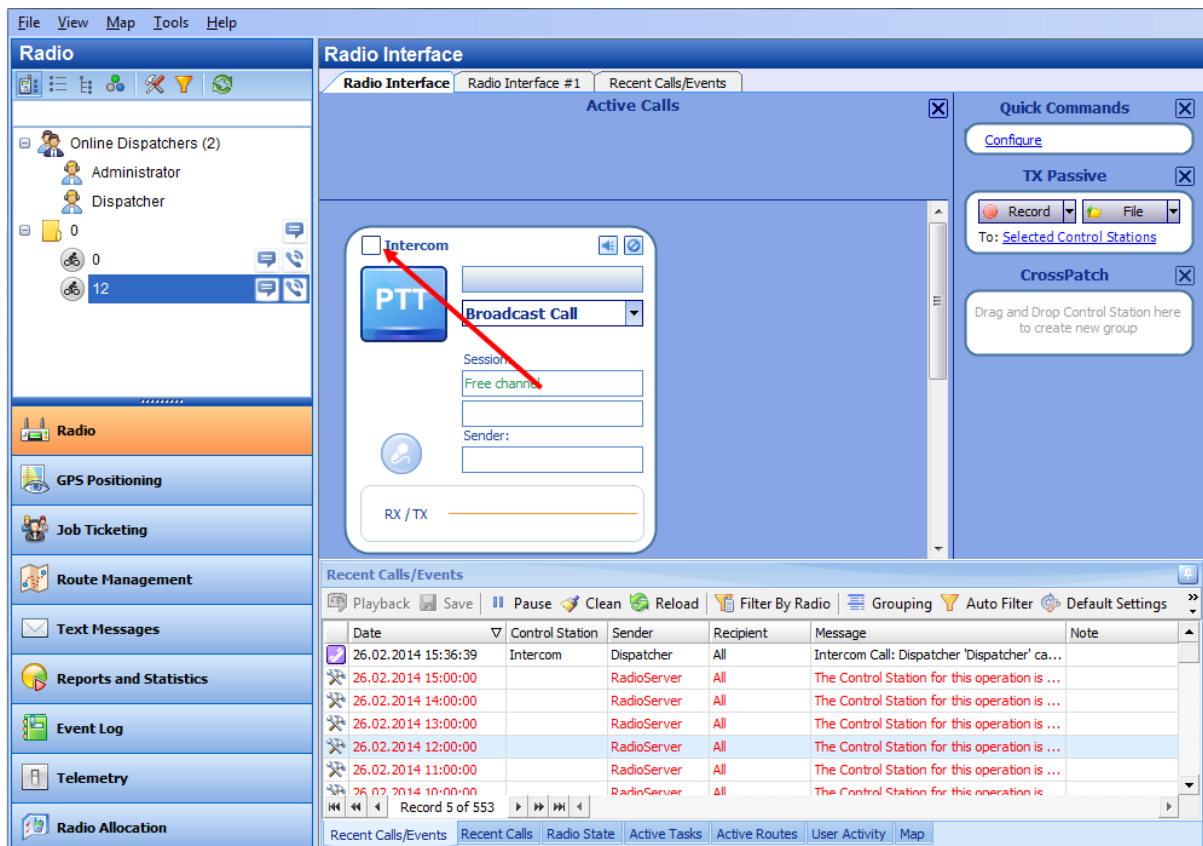
The screenshot shows the 'Options' dialog box with the 'Volume' tab selected. The dialog contains the following sections and controls:

- Selected channel:** Speaker: Left and Right, Volume: slider.
- Unselected channel:** Speaker: Left and Right, Volume: slider.
- Intercom:** Speaker: Left and Right, Volume: slider.
- System sounds:** Speaker: Left and Right, Volume: slider.
- SIP Interconnect:** Speaker: Left and Right, Volume: slider.

Each section has a 'Defaults' link to its right. The 'OK' and 'Cancel' buttons are at the bottom right.

- Customize **selected channel** speakers and volume parameters;

- Customize **unselected channel** speakers and volume parameters. This option is intended for radio channels which are not selected in Dispatch Console. See the screenshot below:



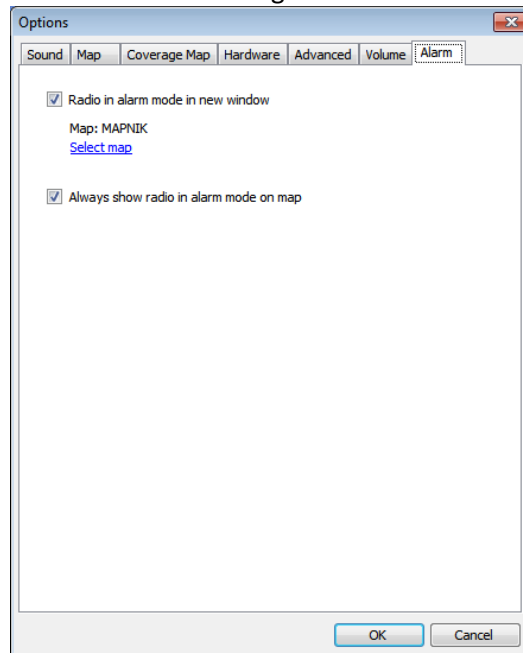
- Customize **Intercom** speakers and volume parameters. This option is intended for **Intercom** Voice session between Dispatchers;
- Customize **system sounds** speakers and volume parameters ;

To see the list of system sounds go to [Options](#), **Sound** Tab.

- Customize **SIP Interconnect** speakers and volume parameters. This option is intended for SIP calls;

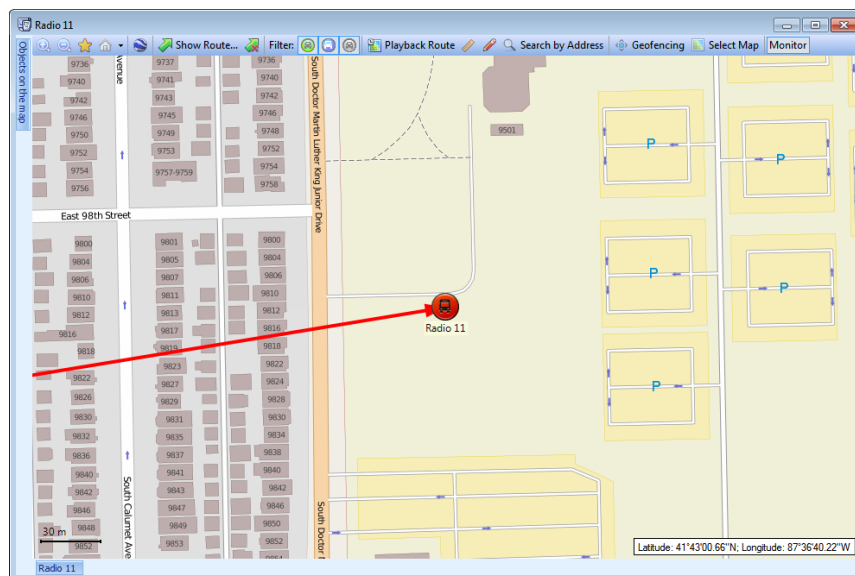
Alarm

Go to **Alarm** tab to configure radio in Alarm mode settings:



- **Radio in alarm mode in new window** – select to display any radio in alarm mode in new window on the selected map type.
- **Map** – in the field default map for radio is displayed. Click «**Select map**» button and specify a default map type for displaying radio in alarm mode;
- **Always show radio in alarm mode on map** – select if you want offline radios in alarm mode to be displayed on selected map type anytime when an alarm from any radio comes.

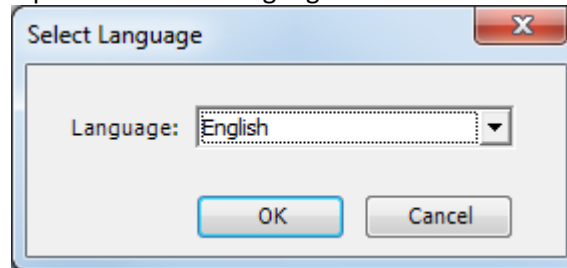
Note: When **Always show radio in alarm mode on map** option selected, you cannot disable offline radios in alarm mode displaying on map:



Click «**Default**» button to reset settings to defaults.
 Click «**OK**» to save modified Dispatch Console options.

Set Language

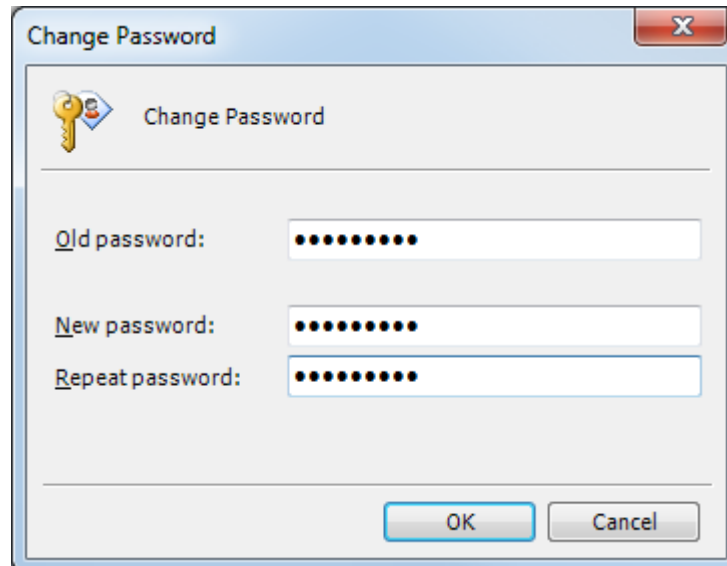
Select **Set Language** to change Dispatch Console's language:



Select language in the dropdown list and click «**OK**».
The changes will apply with the next launch of console.

Change Password

Select to change Dispatcher's password to access the Dispatch Console or create new password to connect to Dispatch Console:



- Type in Old Password.
- Type in New Password and then confirm it in the field below.

Click «**OK**» to change the password.

Help

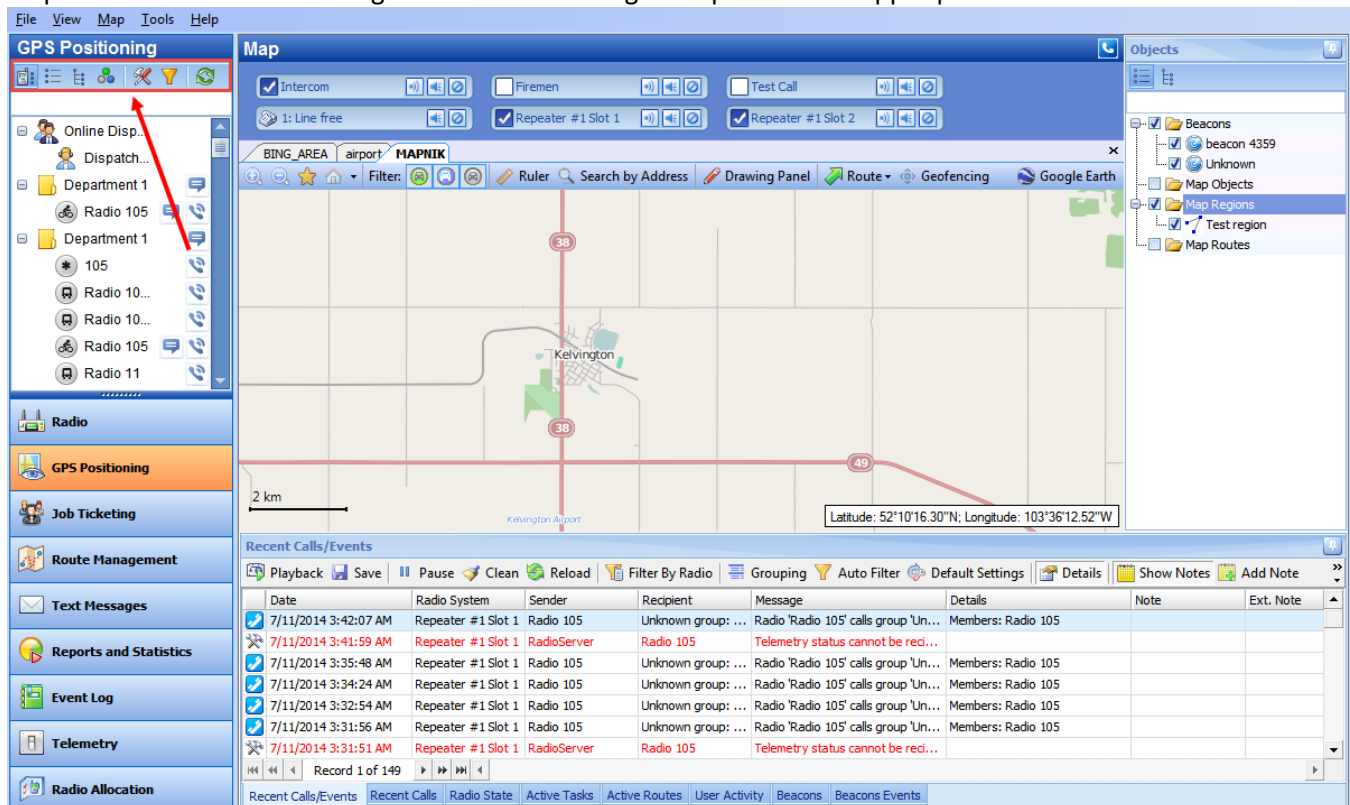
- **Send feedback** – click to see Neocom Software, Ltd. contact details.
- **About** – click to see your TRBOnet Dispatch Software info.

Radio interface

On Radio Interface tab Dispatcher can make radio and phone calls, send text messages to radios and phone numbers, monitor recent calls and events, radio state, active tasks and routes and view selected map in minimal mode.

Navigation Tree Customization

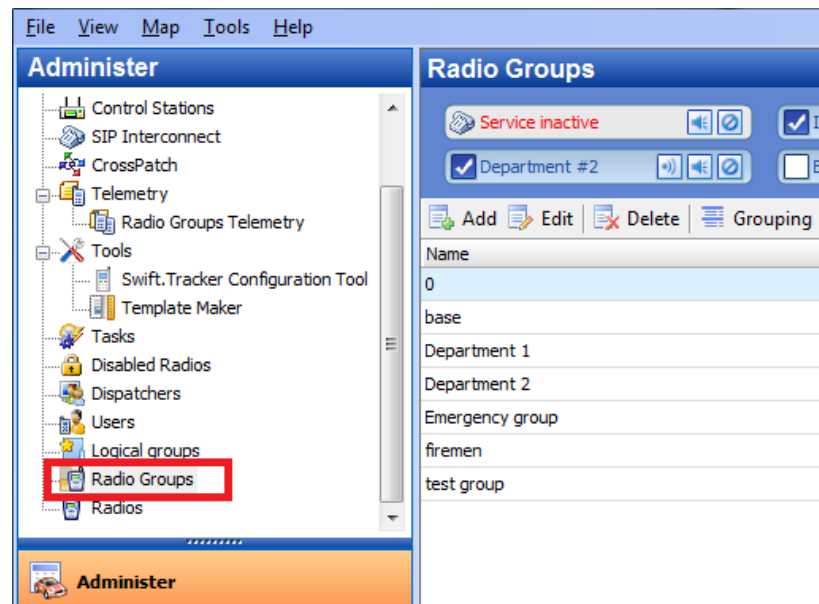
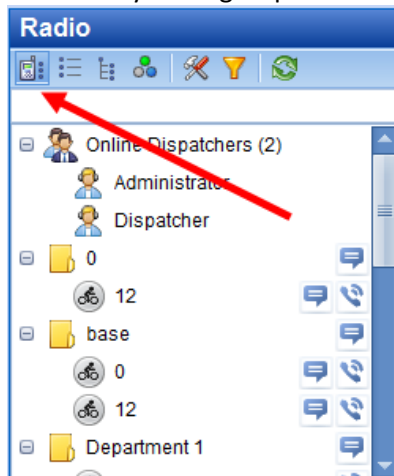
Dispatcher can customize Navigation Tree view using tools panel in the upper part of the list:



The screenshot displays the TRBOnet Radio Interface software. The left sidebar contains a 'Navigation Tree' with various icons for different functions. A red arrow points to the 'GPS Positioning' icon in the top toolbar. The main window is divided into several sections: a top toolbar with various icons, a map area showing a location near Kelvington, and a 'Recent Calls/Events' table at the bottom.

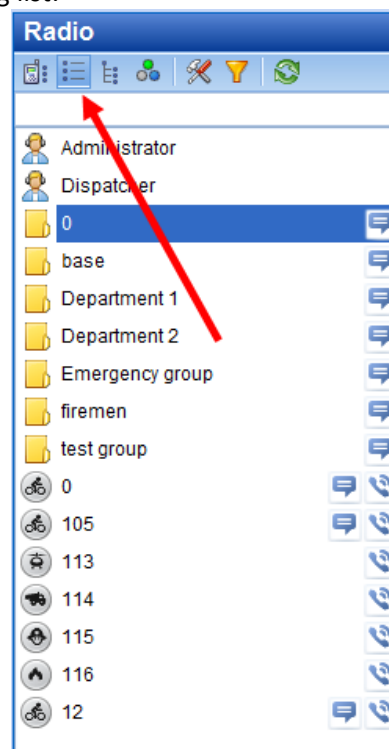
Date	Radio System	Sender	Recipient	Message	Details	Note	Ext. Note
7/11/2014 3:42:07 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:41:59 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be redi...			
7/11/2014 3:35:48 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:34:24 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:32:54 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:56 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:51 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be redi...			

1 – View by radio groups:

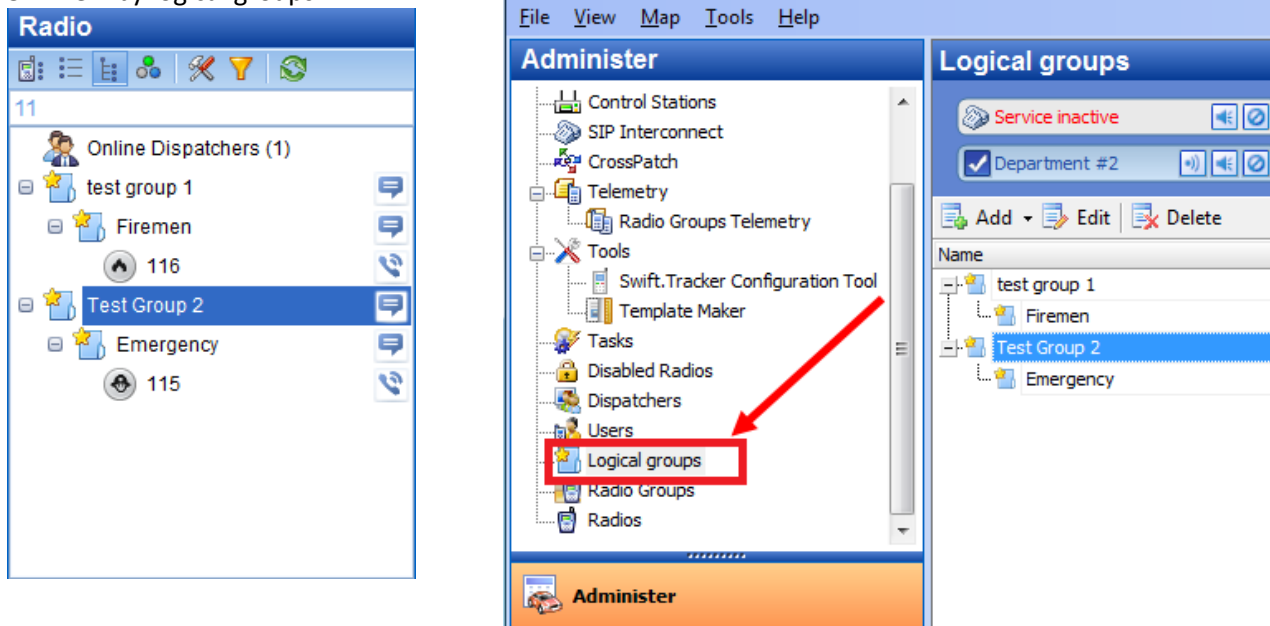


For more details about Radio Groups creation and modifying see [TRBOnet Administration Guide](#), **Radio Groups** section.

2 – List view - alphanumeric descending list:

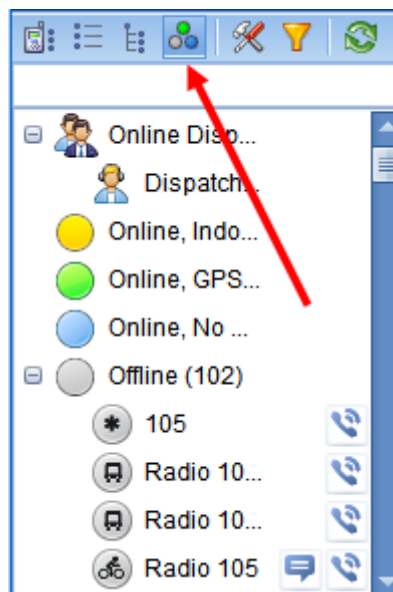


3 – View by logical groups:



For more details about Radio Groups creation and modifying see [TRBOnet Administration Guide](#), **Logical Groups** section.

4 – Filter radio subscribers by statuses:

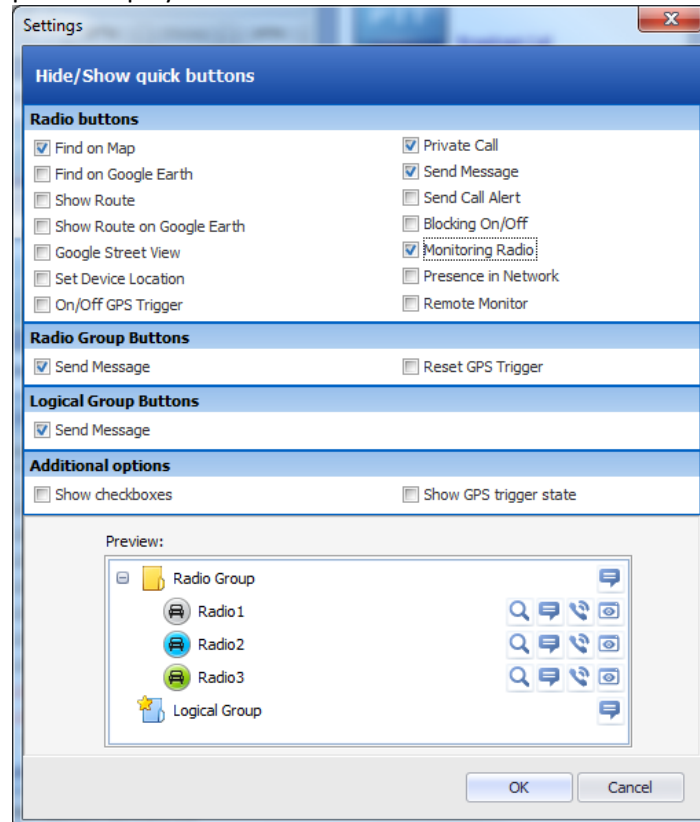
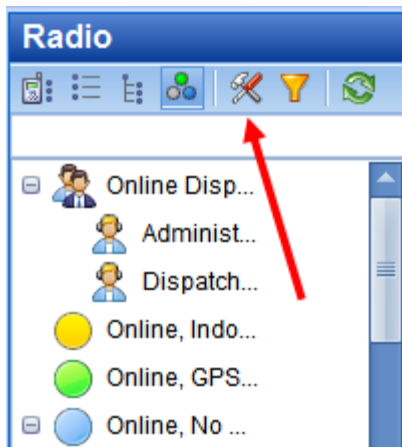


- **Yellow** – radio is online and enters beacon coverage zone, has Indoor positioning lock.

Note: In case when GPS data available and radio enters beacon coverage zone, the status turns yellow, not green

- **Blue** – radio is online, GPS data are not available;
- **Green** – GPS data available. Appears if RadioServer gets GPS data during the last 10 minutes (the time interval can be set in the server configuration);
- **Grey** – radio offline.

5 – Configure quick buttons and radios' view options displayed in subscribers' list:

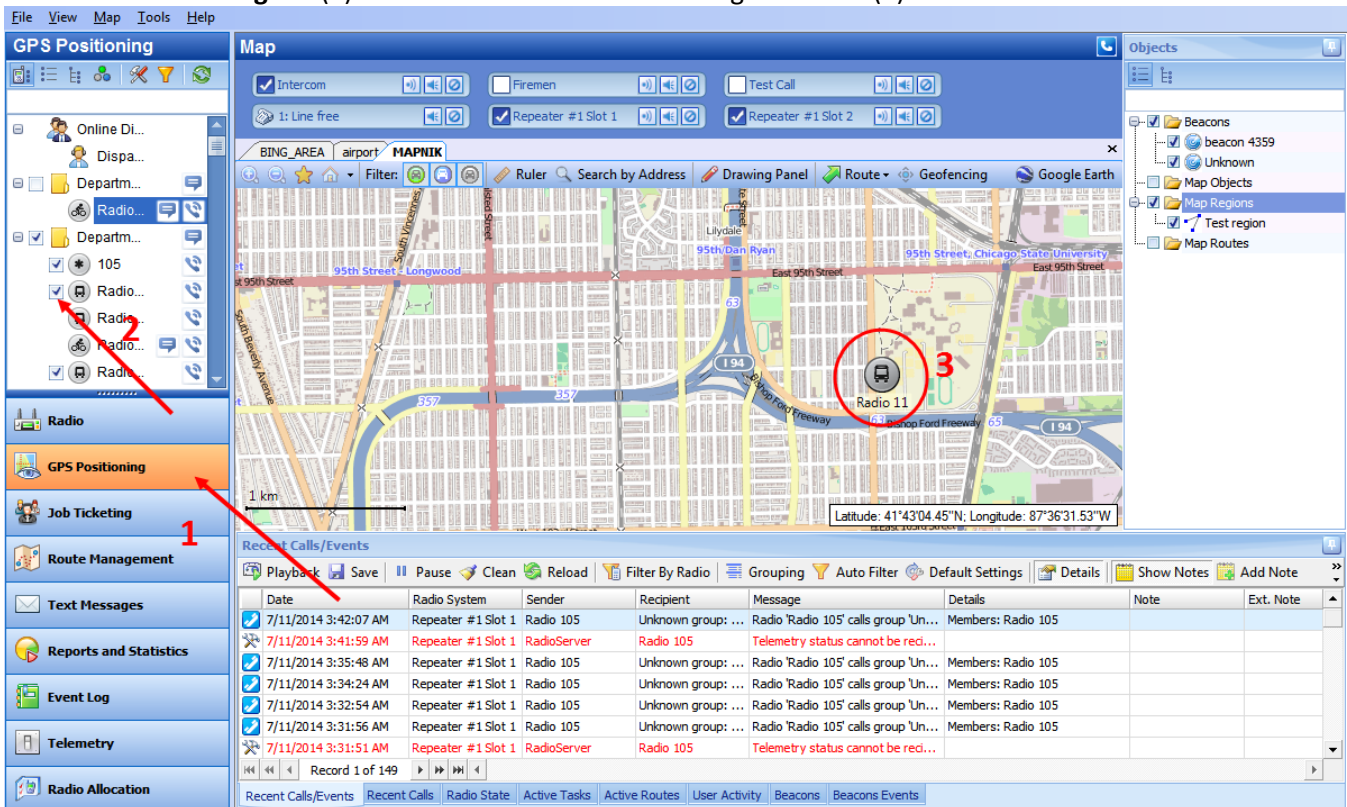


- **Radio buttons** – select options you want to see in the Navigation Tree for radios. The preview is in the lower part of the Setting window.
- **Radio Groups buttons** – select options you want to see in the Navigation Tree for radio groups. The preview is in the lower part of the Setting window.
- **Logical group buttons** - select options you want to see in the Navigation Tree for logical groups. The preview is in the lower part of the Setting window.

Additional options:

- **Show checkboxes** – select to display radios and radio group checkboxes. When radio sends GPS and this data is saved in the database you can enable or disable radio position on map by selecting the checkboxes. Check box is not displayed in case of no GPS data for the radio.

Go to **GPS Positioning** tab (1) and select the radio in the Navigation Tree (2):



Radio is displayed on map.

Unselect the checkbox to disable radio position on map.

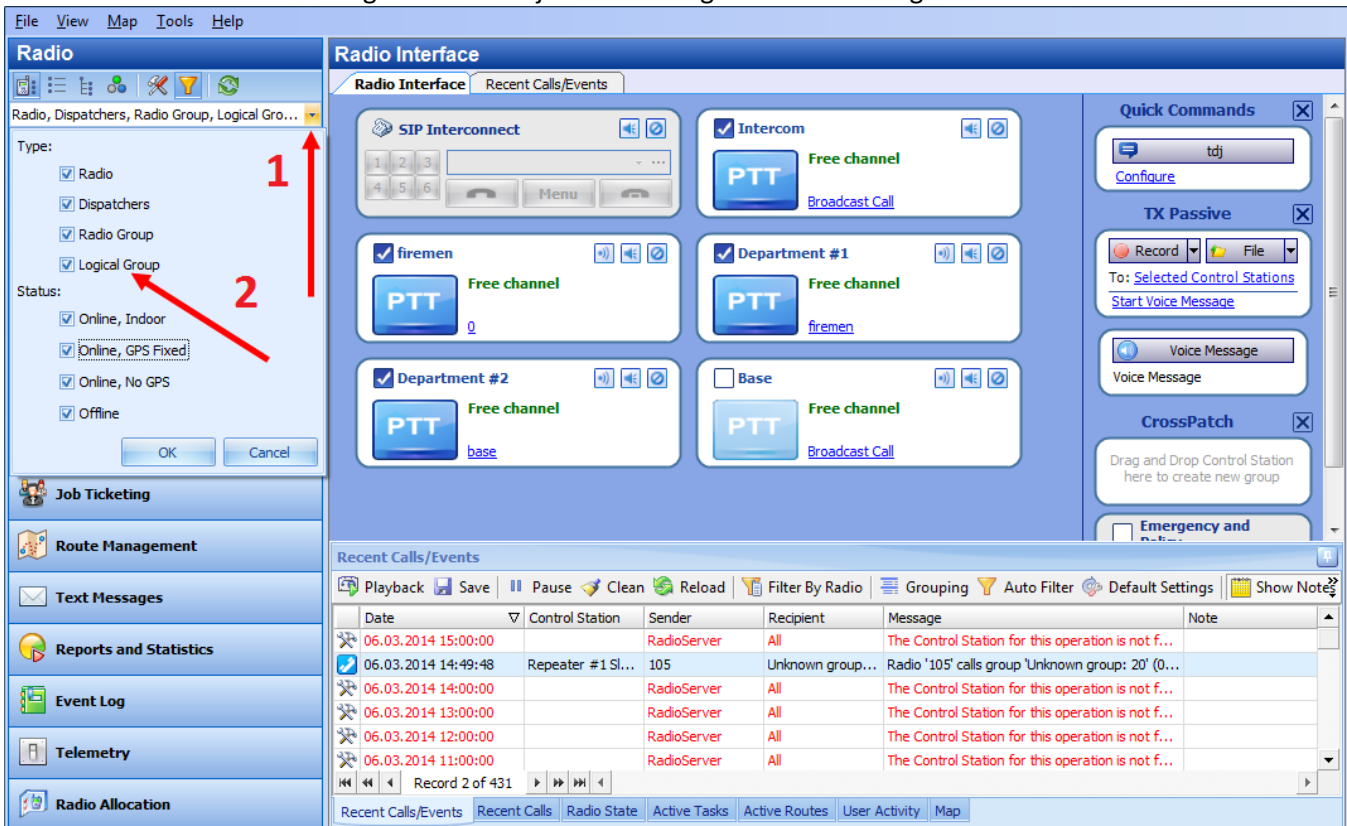
- **Show GPS trigger state** – select to display radios GPS trigger state in the Navigation Tree.

Color	Description
Grey	Radio is offline.
Blue + white dish	Radio sends ARS is online without any GPS data
Blue + red dish	Radio sends ARS online and GPS packets without GPS data (radio is out of GPS coverage)
Green	Radio is online

6 – Filter Navigation Tree



Click button to filter Navigation Tree objects according to selected categories:



Radio

Type:

- ☒ Radio
- ☒ Dispatchers
- ☒ Radio Group
- ☒ Logical Group

Status:

- ☒ Online, Indoor
- ☒ Online, GPS Fixed
- ☒ Online, No GPS
- ☒ Offline

OK Cancel

Radio Interface

Recent Calls/Events

SIP Interconnect

Intercom

firemen

Department #1

Department #2

Base

Quick Commands

TX Passive

CrossPatch

Emergency and

Recent Calls/Events

Date	Control Station	Sender	Recipient	Message	Note
06.03.2014 15:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 14:49:48	Repeater #1 Sl...	105	Unknown group...	Radio '105' calls group 'Unknown group: 20' (0...	
06.03.2014 14:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 13:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 12:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 11:00:00		RadioServer	All	The Control Station for this operation is not f...	

Record 2 of 431

Recent Calls/Events Recent Calls Radio State Active Tasks Active Routes User Activity Map

1 – Open dropdown list;

2 – Select objects type and status to filter radio subscribers.

You can select filter by radio groups (e.g. Firemen and Emergency) and online radios to see only online radios in Firemen and Emergency groups.

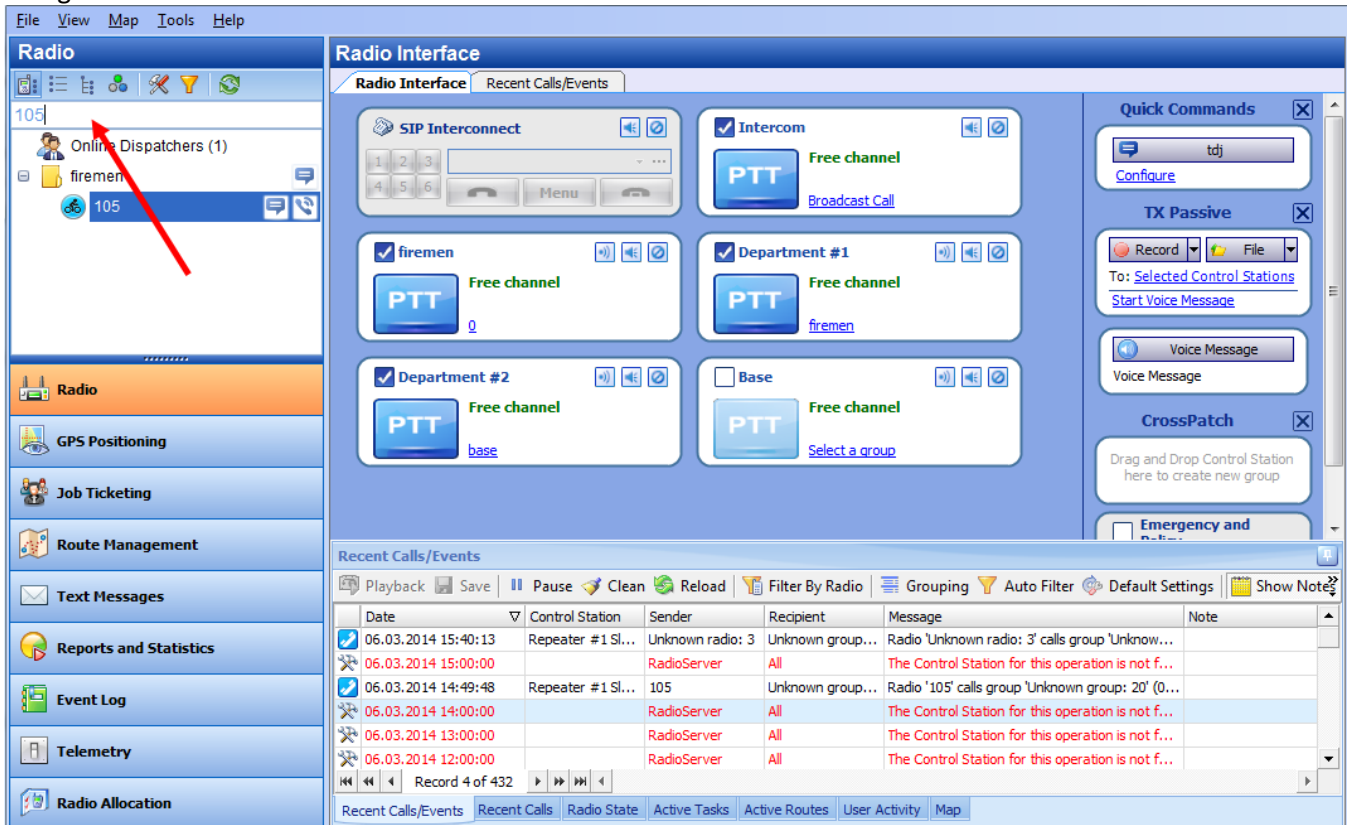
Click «OK» to apply filter settings.

7 – Reload Navigation Tree.

Click  button to reload the Navigation Tree.

8 – Quick Radio filter.

Type in Radio ID or Radio name in the system to filter the radio list. Search results are displayed in the Navigation Tree:

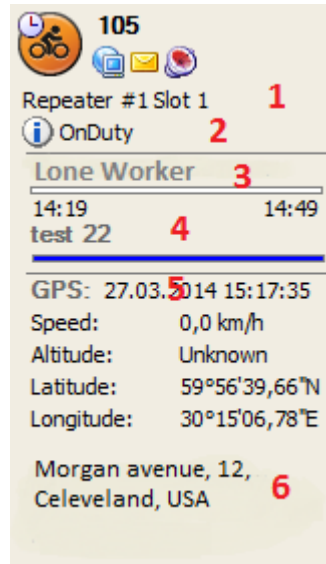


The screenshot shows the TRBOnet software interface. On the left is a 'Radio' sidebar with a search bar containing '105'. A red arrow points to the search bar. Below the search bar is a list of radio stations, including 'firemen' and '105'. The main area is titled 'Radio Interface' and contains several panels: 'SIP Interconnect', 'Intercom', 'firemen', 'Department #1', 'Department #2', and 'Base'. Each panel has a 'PTT' button and a 'Free channel' status. On the right is a 'Quick Commands' panel with buttons for 'Record', 'File', 'Voice Message', and 'CrossPatch'. At the bottom is a 'Recent Calls/Events' table.


Date	Control Station	Sender	Recipient	Message	Note
06.03.2014 15:40:13	Repeater #1 Sl...	Unknown radio: 3	Unknown group...	Radio 'Unknown radio: 3' calls group 'Unknown...	
06.03.2014 15:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 14:49:48	Repeater #1 Sl...	105	Unknown group...	Radio '105' calls group 'Unknown group: 20' (0...	
06.03.2014 14:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 13:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 12:00:00		RadioServer	All	The Control Station for this operation is not f...	

Radio Popup Window

Dispatcher can see last received radio data in the Radio Popup Window. Select radio in the Navigation Tree and navigate mouse cursor over the selected one:



Click  button to request the subscriber's presence in the radio network

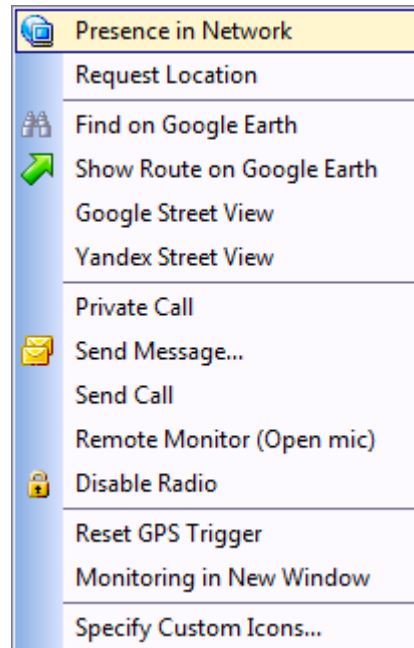
Click  button to send a text message to the radio subscriber

Click  button to request radio subscriber's location

- 1 - Current channel the radio is on
- 2 - The User Activity list the radio is assigned to is displayed if User Activity task is activated
- 3 - The Lone Worker policy's state is displayed if Lone Worker task is activated
- 4 - Route assigned for the selected radio if Route Management task activated for selected radio
- 5 - GPS: current GPS data and current radio location data.
- 6 - Current location.

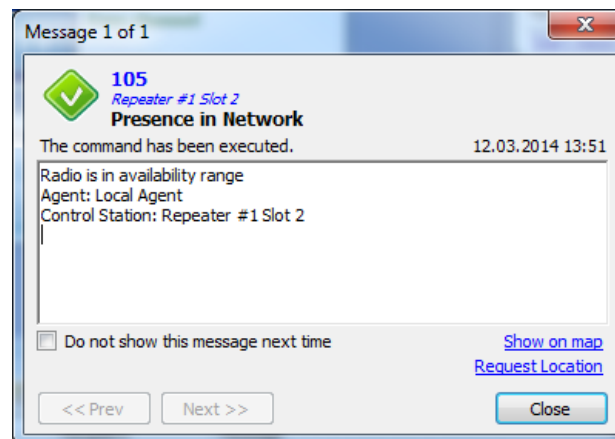
Radio Context Menu

To open radio context menu right-click selected radio in the Navigation Tree. Radio Context menu on **Radio** tab is as follows:



When some tasks are assigned to a radio additional options will be displayed in the context menu list.

- **Presence in Network** – sends «check radio» command. If radio is on and is located in coverage area, Dispatcher can see a message:



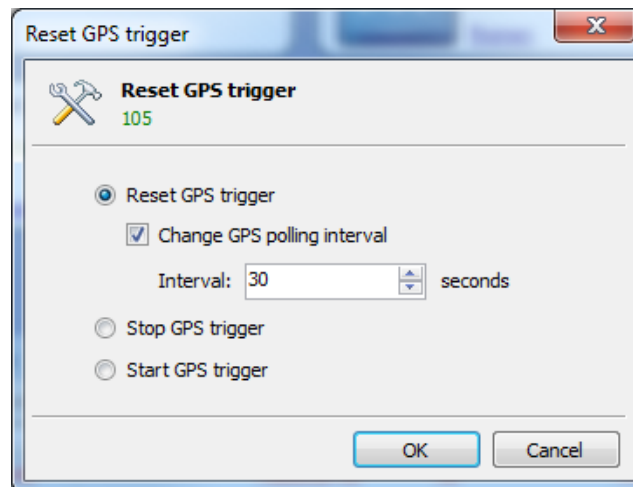
The message contains Agent and Control Station data for selected radio. Also, you can show selected radio on map and request its location.

- **Request Location** (for radios with GPS module only) – select to see selected radio current location data
- **Find on Google Earth** – select to display selected radio location on Google Earth
- **Show route on Google Earth** – select to see radio route on Google Earth for the set time period
- **Google Street View** - select to open Google Street View due to subscriber latest location and direction
- **Yandex Street View** – select to open Yandex Panorama due to subscribers latest location and direction
- **Private Call** – select to initiate Private Call to selected radio
- **Send Message** (for radios with display only) – select to send text message to radio

- **Send Call** – select to send a beep tone to selected radio for notifying the call
- **Remote Monitor** (open mic) – select to activate subscriber radio mic in hidden mode (remote monitor duration – 30 sec.):



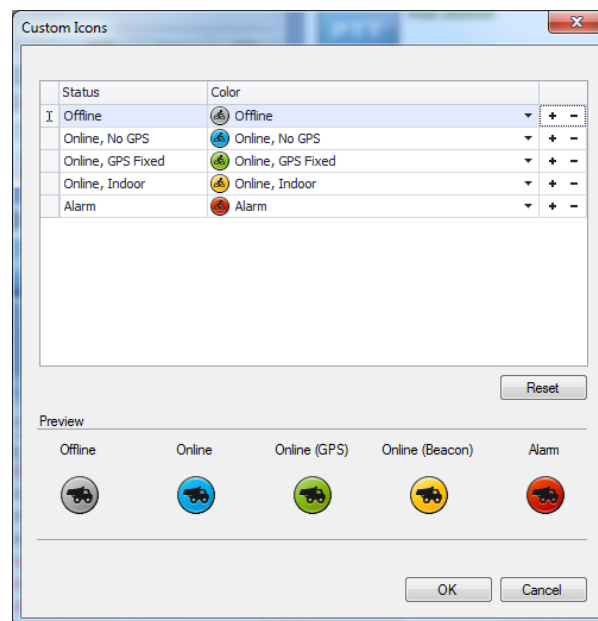
- **Disable/Enable Radio** – select to disable (“stun kill”) selected radio. To enable the radio make a right-click to open the context menu and select «Enable Radio»
- **Reset GPS Trigger** (for radios with GPS module only) – select to modify GPS trigger settings:



Reset GPS Trigger – select to stop and start GPS trigger, GPS polling interval can be updated;
Stop GPS Trigger – select to restrict radio to send GPS data
Start GPS Trigger – select to allow radio to send GPS data.

- **Monitoring in New Window** – select to open GPS Positioning tab for selected radio in new window

- **Specify Custom Icons** – select to set individual parameters for radio icons:



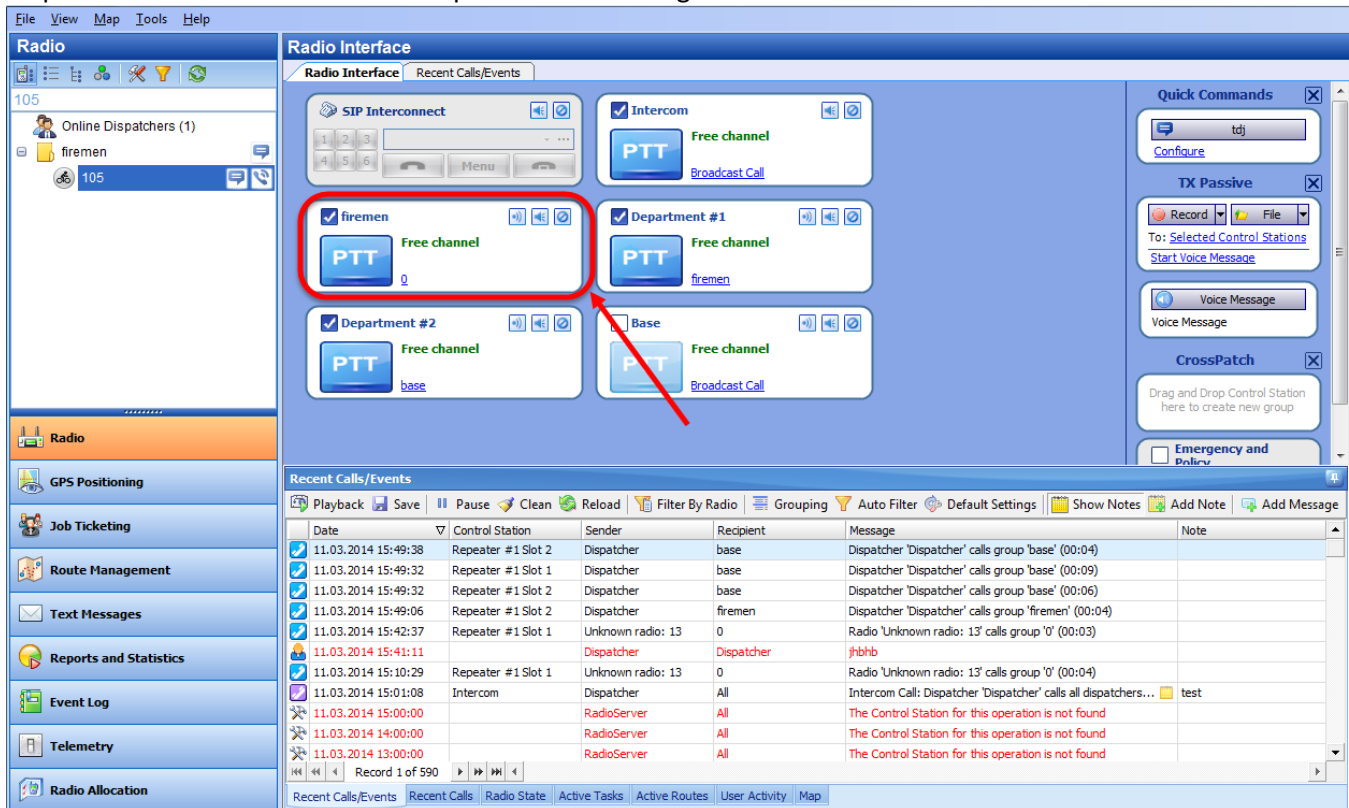
In the Custom Icons Window you can specify icons for selected radio status. Standard icons are represented in the dropdown list. To set custom color for radio status icon click «+» button and select color in the uniform color palette. Click «-» button to delete custom color.

In the lower part of the window you can see icons preview.

To set default icons for selected radio click «**Reset**» button.

PTT Boxes Options





Dispatcher makes voice calls from Dispatch Console using Control Station boxes:



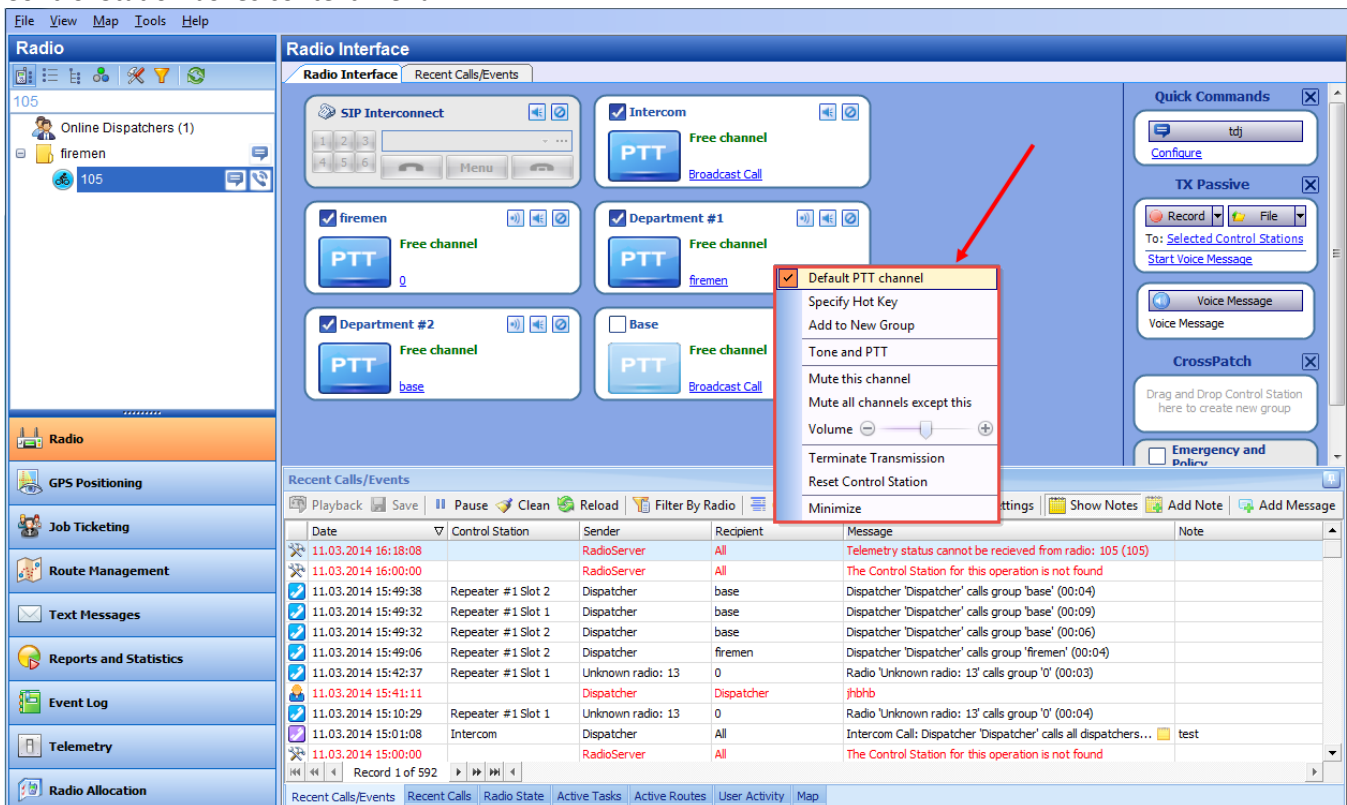
The screenshot shows the 'Radio Interface' window with a sidebar on the left containing various tools like 'Radio', 'GPS Positioning', 'Job Ticketing', etc. The main area displays several PTT boxes for different groups: 'firemen', 'Department #1', and 'Department #2'. Each box has a 'PTT' button, a 'Free channel' status, and a 'Broadcast Call' button. A red box highlights the 'firemen' PTT box, and a red arrow points to it from the 'Recent Calls/Events' log at the bottom. The log shows a list of calls with columns for Date, Control Station, Sender, Recipient, and Message.

Date	Control Station	Sender	Recipient	Message	Note
11.03.2014 15:49:38	Repeater #1 Slot 2	Dispatcher	base	Dispatcher 'Dispatcher' calls group 'base' (00:04)	
11.03.2014 15:49:32	Repeater #1 Slot 1	Dispatcher	base	Dispatcher 'Dispatcher' calls group 'base' (00:09)	
11.03.2014 15:49:32	Repeater #1 Slot 2	Dispatcher	base	Dispatcher 'Dispatcher' calls group 'base' (00:06)	
11.03.2014 15:49:06	Repeater #1 Slot 2	Dispatcher	firemen	Dispatcher 'Dispatcher' calls group 'firemen' (00:04)	
11.03.2014 15:42:37	Repeater #1 Slot 1	Unknown radio: 13	0	Radio 'Unknown radio: 13' calls group '0' (00:03)	
11.03.2014 15:41:11		Dispatcher	Dispatcher	jhbhb	
11.03.2014 15:10:29	Repeater #1 Slot 1	Unknown radio: 13	0	Radio 'Unknown radio: 13' calls group '0' (00:04)	
11.03.2014 15:01:08	Intercom	Dispatcher	All	Intercom Call: Dispatcher 'Dispatcher' calls all dispatchers...	test
11.03.2014 15:00:00		RadioServer	All	The Control Station for this operation is not found	
11.03.2014 14:00:00		RadioServer	All	The Control Station for this operation is not found	
11.03.2014 13:00:00		RadioServer	All	The Control Station for this operation is not found	

The following options are available for Control Station:

- Click  button to make this channel a radio default PTT channel (for external microphone or spacebar).
- Click  (Tone and PTT) button to start transmitting after a tone sound.
- Click  (Solo) button to mute all channels except for this one.
- Click  (Mute) button to mute this channel.

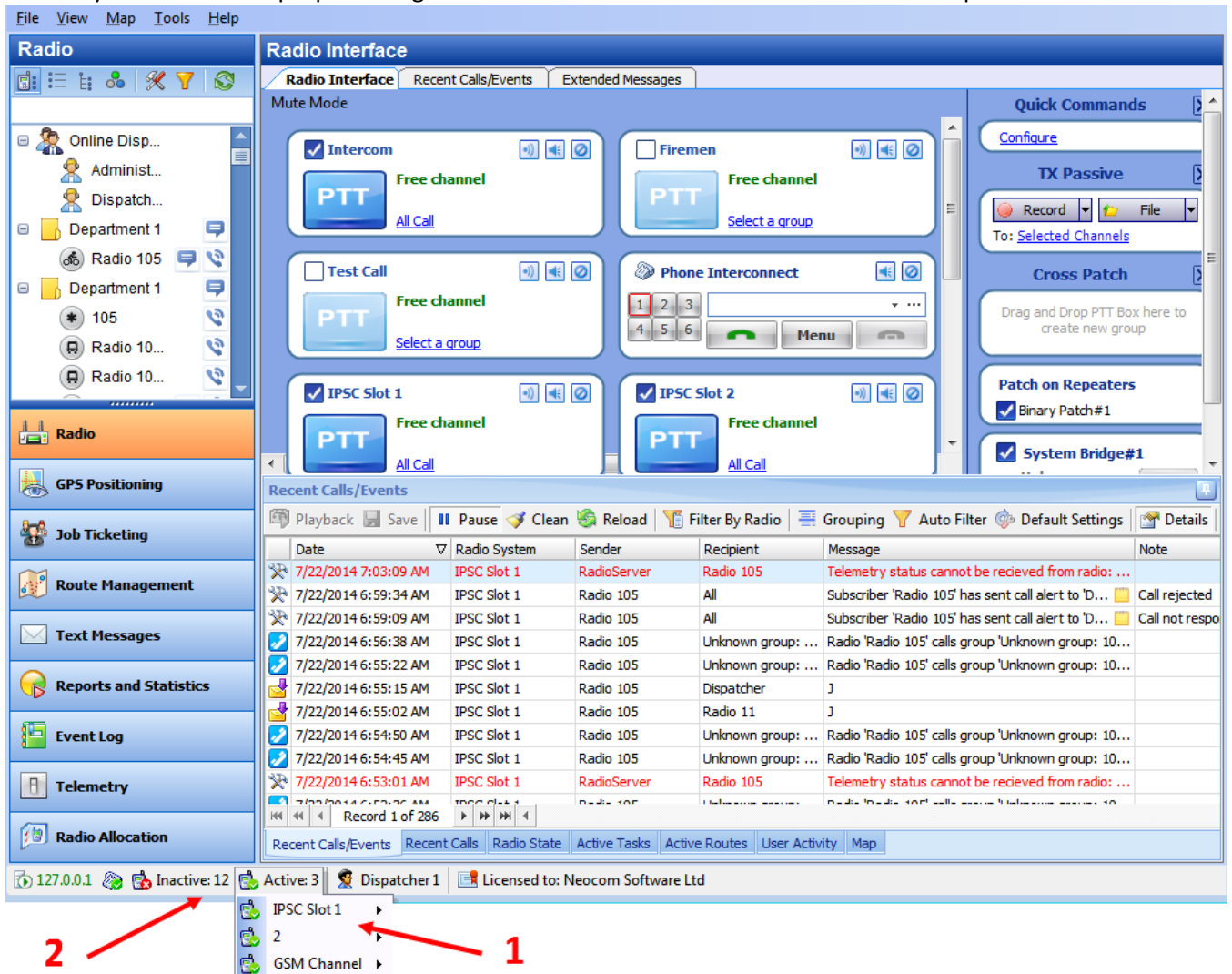
Right-click selected Control Station box to display the context menu. The following options are available in the Control Station boxes context menu:



- **Default PTT channel** - select to make this channel radio default PTT channel (for external microphone or spacebar)
- **Specify Hot Key** - select to specify the hot key to transmit on this radio channel
- **Add to New Group** – select to add a radio group attached to selected radio box in Custom CrossPatch box. When two or more groups added on custom CrossPatch box, Dispatcher can click «**Create**» button to enable custom CrossPatch for selected groups.
- **Tone and PTT** - click to start transmitting after a tone sound
- **Mute this channel** - click to mute selected channel
- **Mute all channels except this** - click to mute all channels except selected one
- **Volume** - allows to specify volume level on the selected channel
- **Terminate Transmission** - click to terminate a call on the selected channel
- **Reset Control Station** - click to reset the control station or repeater slot
- **Minimize/Maximize** - click to minimize or maximize the control station box.

System Elements Properties

To see system elements' properties right-click the selected element at the bottom of Dispatch Console window:



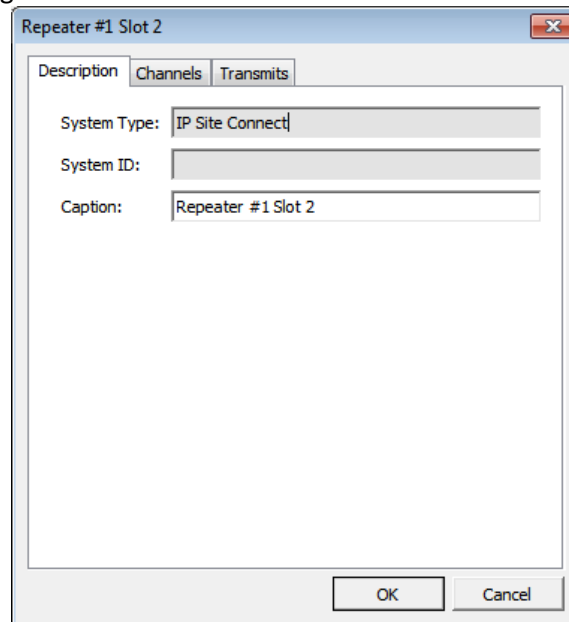
The screenshot shows the Dispatch Console interface. The 'Radio Interface' section is active, displaying various PTT (Push-to-Talk) buttons for Intercom, Firemen, Test Call, Phone Interconnect, and IPSC Slot 1 and 2. The 'Recent Calls/Events' section shows a list of calls with columns for Date, Radio System, Sender, Recipient, Message, and Note. A red arrow labeled '1' points to the 'IPSC Slot 1' entry in the 'Recent Calls/Events' table. Another red arrow labeled '2' points to the 'Inactive: 12' status indicator in the bottom left corner of the interface.

Dispatcher can see Active and Inactive registered systems. In case you have more than 10 registered systems, systems are grouped and can be seen in the Dropdown list.

Common information for all system elements is listed below:

1. Description tab

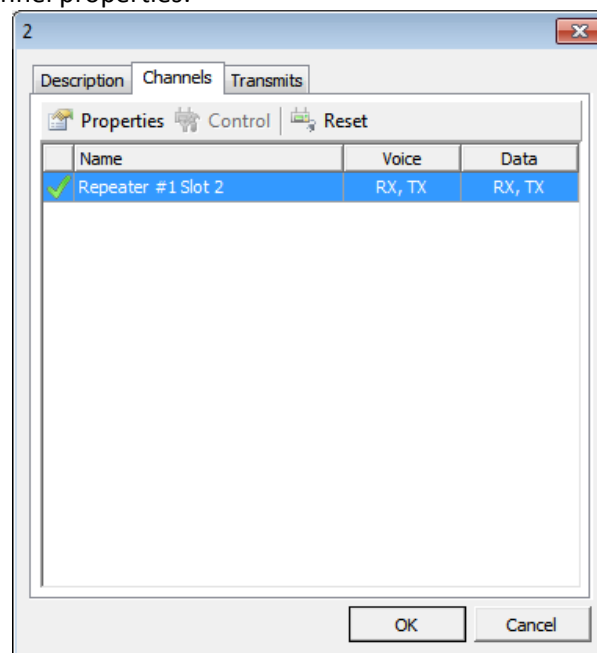
On the **Description** tab see the general info:



- **System Type** – system type for Repeater/digital or analogue mode for Control Station.
 - For Repeater see [Ошибка! Источник ссылки не найден.](#) page.
- **System ID** – an unique System Identifier, configured in TRBOnet RadioServer configuration for repeater of controllers of a system;
- **Caption** – input channel name.

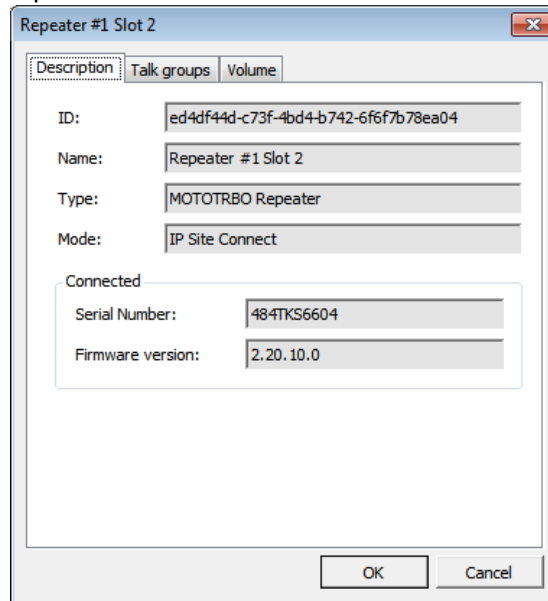
2. Channels

On the **Channels** Page see channel properties:



Name	Voice	Data
✓ Repeater #1 Slot 2	RX, TX	RX, TX

Click «**Properties**» button to see repeater additional data:



- **ID** – default registration number (manufacturer’s number);
- **Name** – system element’s name in the system;
- **Type** – system type for Repeater/digital or analogue mode for Control Station.
 - For Repeater see [TRBOnet Administration Guide](#) **Ошибка! Источник ссылки не найден.** section.
- **Mode** – system type for Repeater/connection mode for Control Station.
 - For Repeater see [TRBOnet Administration Guide](#) **MOTOTRBO Radio Systems** section.
 - For Control Station see [TRBOnet Administration Guide](#) **Control Stations Connection Modes** section.

Connected

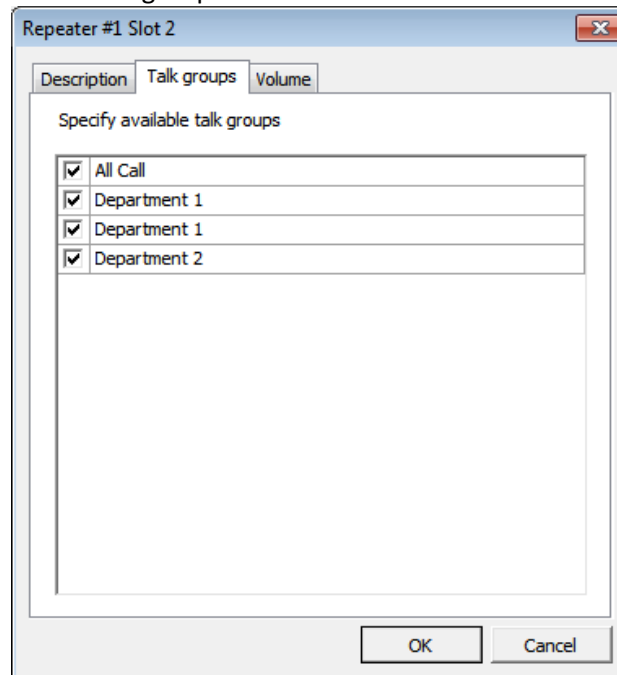
- **Serial number** – default system element’s serial number (manufacturer’s number);
- **Firmware Version** – current system element’s firmware version.

Click «**Reset**» button to test the connection to system element.

Note: For a repeater: «**Reset**» button reconnects the repeater.
 For Control Station: «**Reset**» button reloads the radio.

Talk groups (For Repeaters only)

On the **Talk groups** tab see selected Talk group info:



Repeater #1 Slot 2

Description Talk groups Volume

Specify available talk groups

<input checked="" type="checkbox"/>	All Call
<input checked="" type="checkbox"/>	Department 1
<input checked="" type="checkbox"/>	Department 1
<input checked="" type="checkbox"/>	Department 2

OK Cancel

Specify available Talk groups for the system element in the list of created Talk groups.

Selected Talk groups are available on **Radio** tab in the system element box in the dropdown list:



☒ IPSC #1 Slot 2

PTT

Broadcast Call

Broadcast Call

45

Free channel

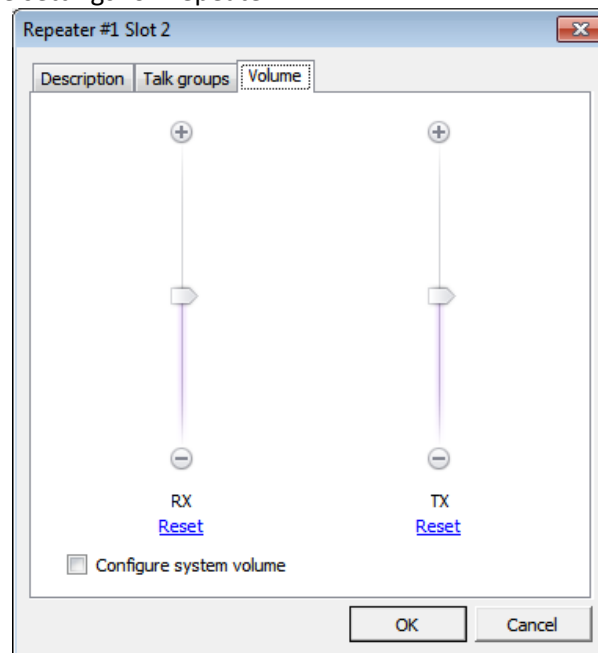
Sender:

RX / TX

Note: close TRBOnet RadioServer Configurator before making any changes to systems elements.

Volume tab (for Repeaters only)

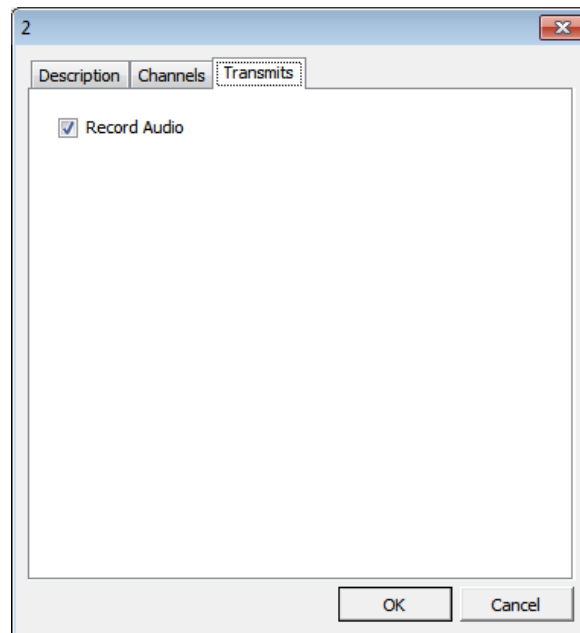
On the **Volume** tab see Volume settings for Repeater:



- Specify RX and TX volume level for the Repeater using Volume control indicator.
- Click «**Reset**» button to set default volume level for RX or TX.
- **Configure system volume** – check to save default volume settings for Voice transmissions from selected Repeater.

3. Transmits tab

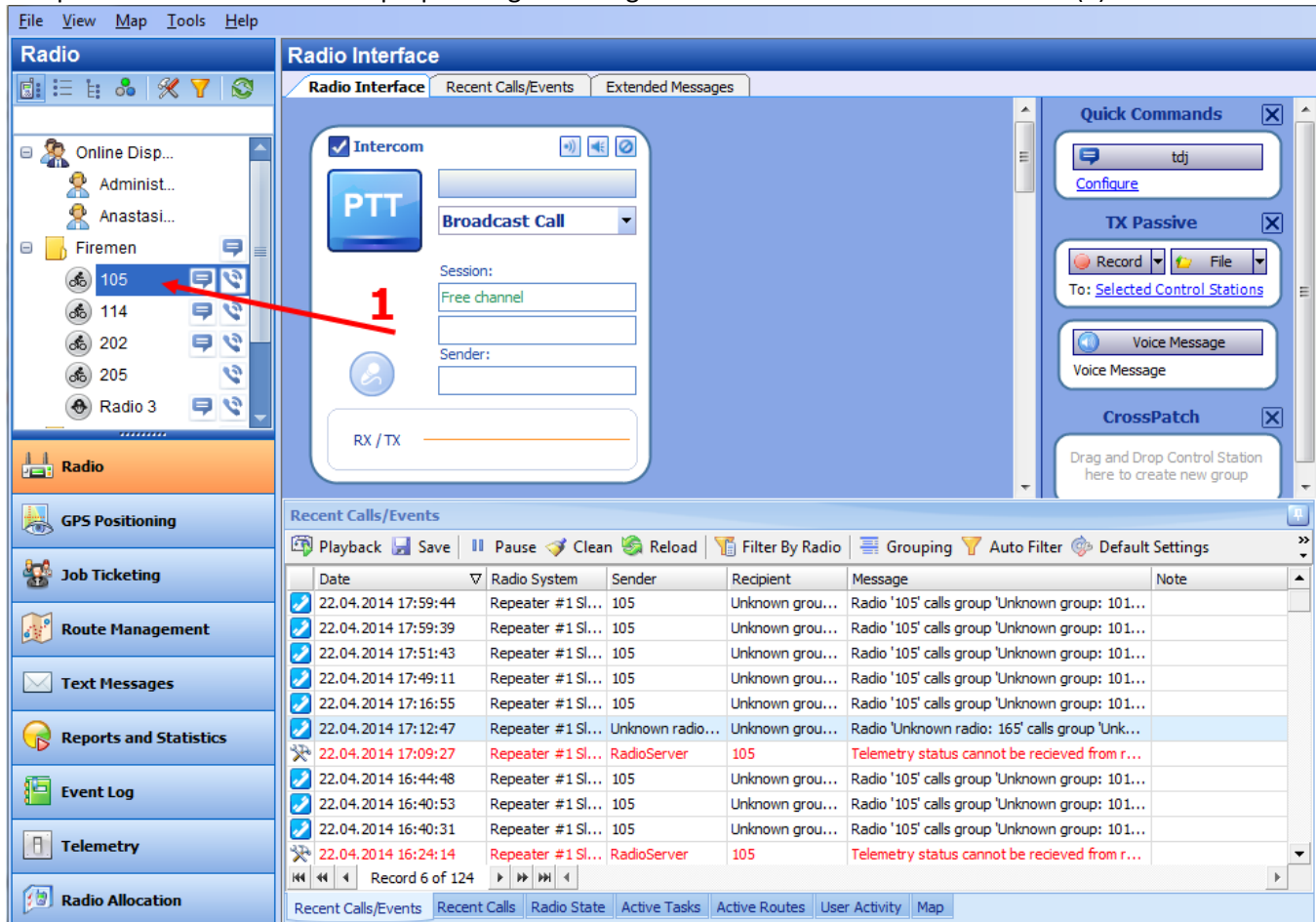
On the **Transmits** tab see the information about audio and data transmissions:



- **Record audio** – check to enable audio recordings for selected repeater;

Radio Properties

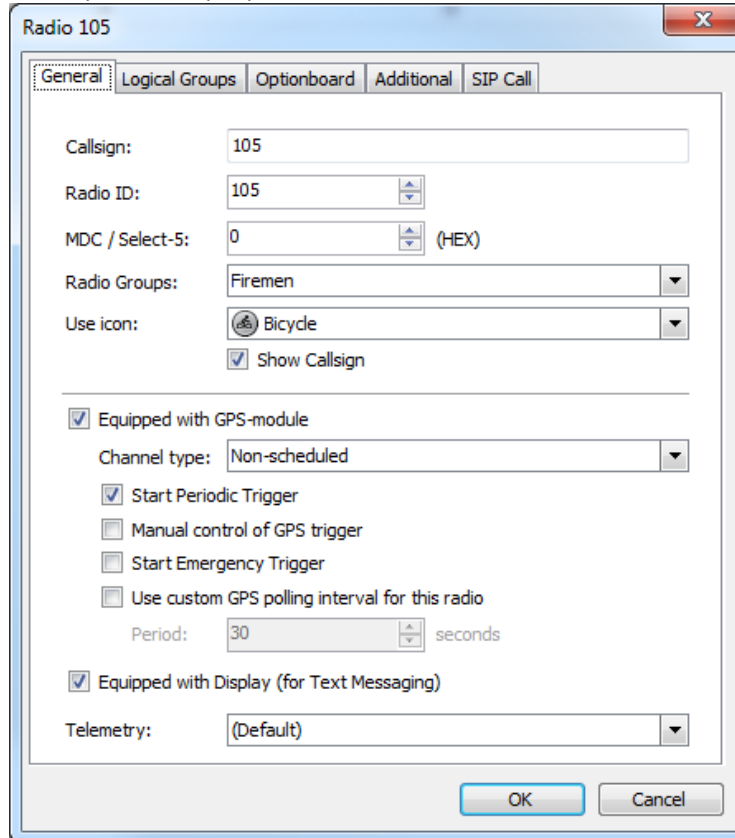
To open and edit selected radio properties go to Navigation Tree and select Radio in the list (1):



The screenshot shows the TRBOnet software interface. On the left is a navigation tree with a 'Radio' section highlighted. A red arrow points to the 'Radio' option, which is labeled with a red '1'. The main window displays the 'Radio Interface' tab, showing a 'PTT' button, a 'Broadcast Call' dropdown, and fields for 'Session' (Free channel) and 'Sender'. Below this is a 'Recent Calls/Events' table.

Date	Radio System	Sender	Recipient	Message	Note
22.04.2014 17:59:44	Repeater #1 Sl...	105	Unknown grou...	Radio '105' calls group 'Unknown group: 101...	
22.04.2014 17:59:39	Repeater #1 Sl...	105	Unknown grou...	Radio '105' calls group 'Unknown group: 101...	
22.04.2014 17:51:43	Repeater #1 Sl...	105	Unknown grou...	Radio '105' calls group 'Unknown group: 101...	
22.04.2014 17:49:11	Repeater #1 Sl...	105	Unknown grou...	Radio '105' calls group 'Unknown group: 101...	
22.04.2014 17:16:55	Repeater #1 Sl...	105	Unknown grou...	Radio '105' calls group 'Unknown group: 101...	
22.04.2014 17:12:47	Repeater #1 Sl...	Unknown radio...	Unknown grou...	Radio 'Unknown radio: 165' calls group 'Unk...	
22.04.2014 17:09:27	Repeater #1 Sl...	RadioServer	105	Telemetry status cannot be recieved from r...	
22.04.2014 16:44:48	Repeater #1 Sl...	105	Unknown grou...	Radio '105' calls group 'Unknown group: 101...	
22.04.2014 16:40:53	Repeater #1 Sl...	105	Unknown grou...	Radio '105' calls group 'Unknown group: 101...	
22.04.2014 16:40:31	Repeater #1 Sl...	105	Unknown grou...	Radio '105' calls group 'Unknown group: 101...	
22.04.2014 16:24:14	Repeater #1 Sl...	RadioServer	105	Telemetry status cannot be recieved from r...	

Double-click selected radio to open radio properties window:



The image shows a screenshot of the 'Radio 105' properties window. It has a title bar with a close button. Below the title bar are five tabs: 'General' (selected), 'Logical Groups', 'Optionboard', 'Additional', and 'SIP Call'. The 'General' tab contains the following fields and options:

- Callsign: 105
- Radio ID: 105 (with up/down arrows)
- MDC / Select-5: 0 (with up/down arrows) (HEX)
- Radio Groups: Firemen (dropdown menu)
- Use icon: Bicycle (dropdown menu)
- ☒ Show Callsign
- ☒ Equipped with GPS-module
 - Channel type: Non-scheduled (dropdown menu)
 - ☒ Start Periodic Trigger
 - ☐ Manual control of GPS trigger
 - ☐ Start Emergency Trigger
 - ☐ Use custom GPS polling interval for this radio
 - Period: 30 (with up/down arrows) seconds
- ☒ Equipped with Display (for Text Messaging)
- Telemetry: (Default) (dropdown menu)

At the bottom right are 'OK' and 'Cancel' buttons.

For more details on radio properties see [TRBOnet Administration Guide](#), **Radios** section.

Note: Radios properties editing might be limited Dispatcher access rights. Contact TRBOnet Dispatch Software Administrator for the access rights.

Call Types

Voice Calls

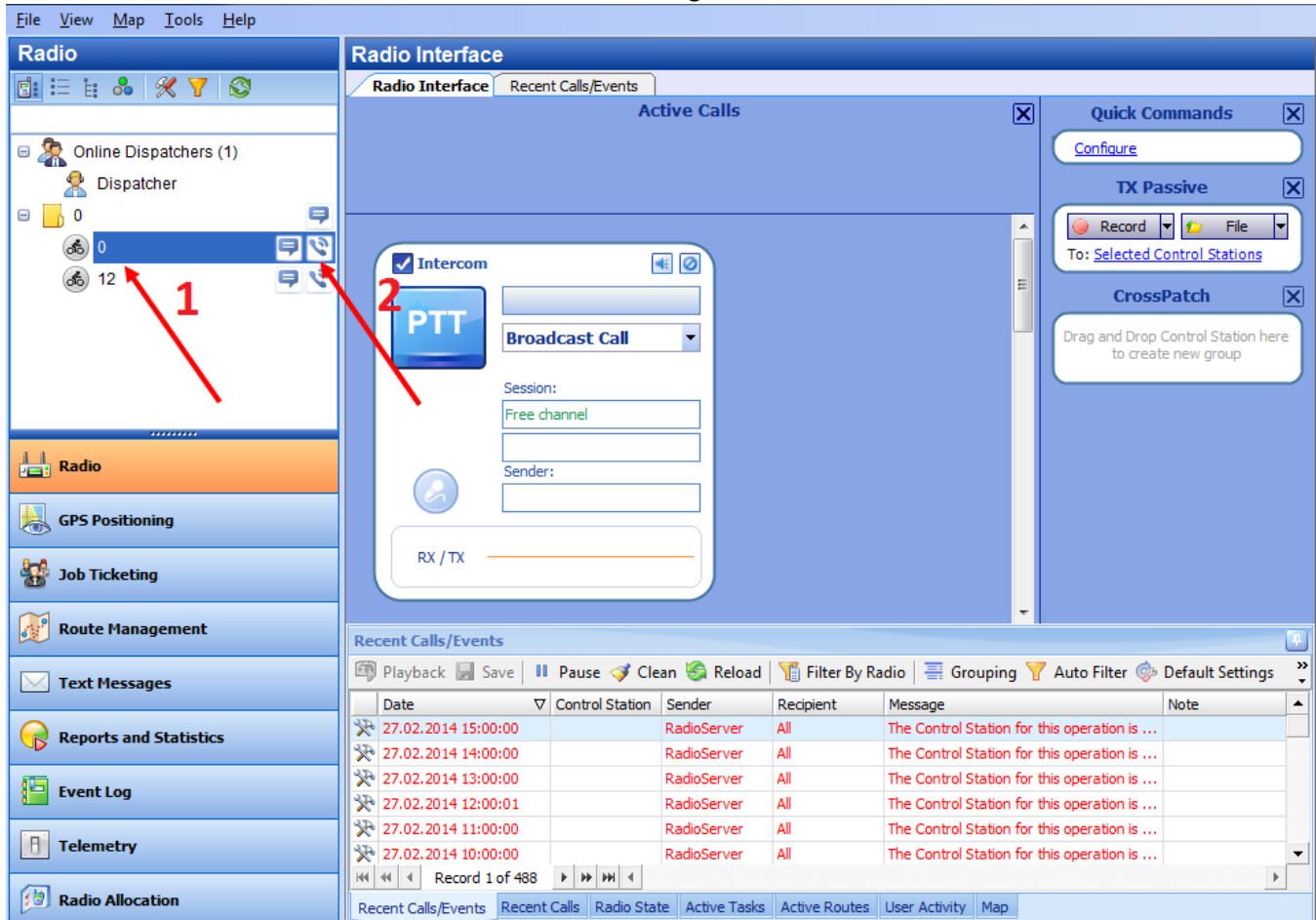
Dispatcher can make the following calls:

- **Private Call** – an individual call from Dispatch Console to selected radio via radio channel
- **Broadcast Call** - call from Dispatch Console to all radio groups registered in the system
- **Group Call** – call from Dispatch Console to selected radio group registered in the system
- **Intercom Call** – call from Dispatch Console to other dispatchers. There are two types of Intercom Call:
 - Intercom Call to all dispatchers
 - Private Intercom Call to selected Dispatcher
- **Phone Call** – call from Dispatch Console to selected phone number.

Also Dispatcher can send voice mails to offline subscribers.

Private Call


Dispatcher can make a call to any online radio registered in the system. To make an individual call from Dispatch Console to selected radio via radio channel do the following:

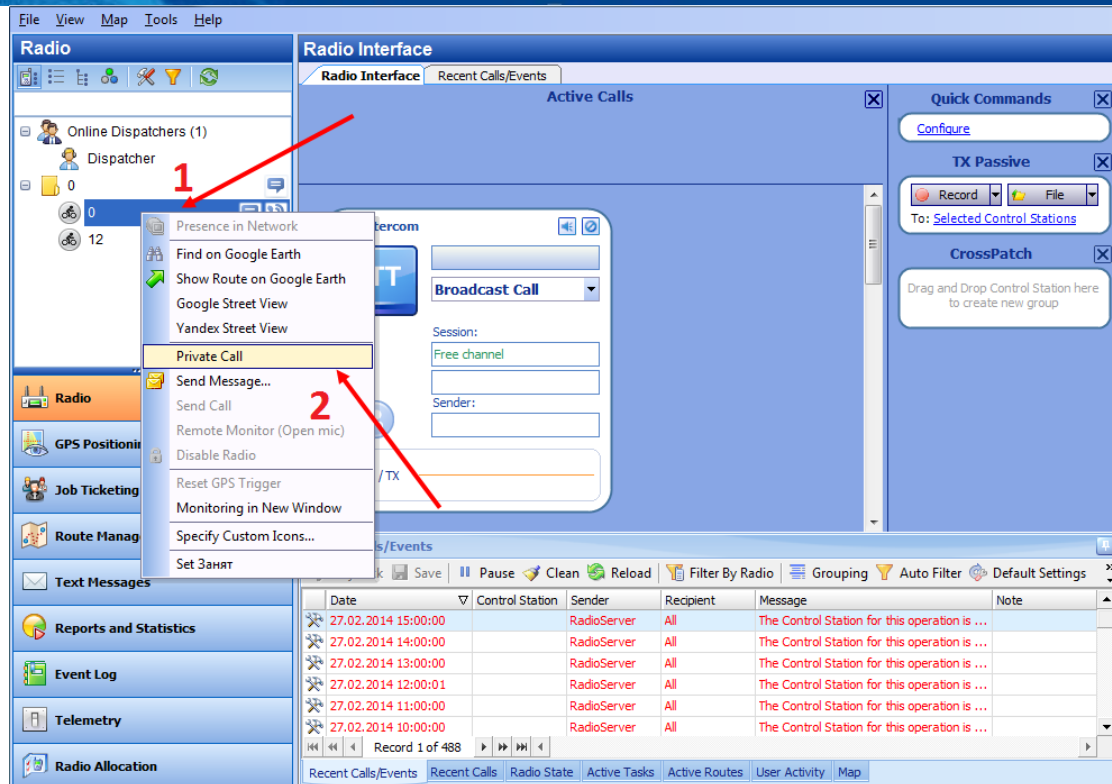


The screenshot shows the TRBOnet Dispatch Console interface. On the left, the 'Radio' panel lists available radios. A red arrow labeled '1' points to radio '12'. In the center, the 'Radio Interface' panel shows a 'PTT' button. A red arrow labeled '2' points to this button. Below the PTT button is a 'Broadcast Call' dropdown menu and fields for 'Session' (set to 'Free channel') and 'Sender'. At the bottom, the 'Recent Calls/Events' table shows a list of calls.

Date	Control Station	Sender	Recipient	Message	Note
27.02.2014 15:00:00		RadioServer	All	The Control Station for this operation is ...	
27.02.2014 14:00:00		RadioServer	All	The Control Station for this operation is ...	
27.02.2014 13:00:00		RadioServer	All	The Control Station for this operation is ...	
27.02.2014 12:00:01		RadioServer	All	The Control Station for this operation is ...	
27.02.2014 11:00:00		RadioServer	All	The Control Station for this operation is ...	
27.02.2014 10:00:00		RadioServer	All	The Control Station for this operation is ...	

1 – Select Radio in the list of available radios;

2 – Click  button to start a Private Call



- 1 – Select Radio in the list of available radios;
 - 2 – Right-click to open a context menu and select «Private Call» to start a Private Call.
- Radio Box view in Transmission Mode:



To terminate the private call do the following:

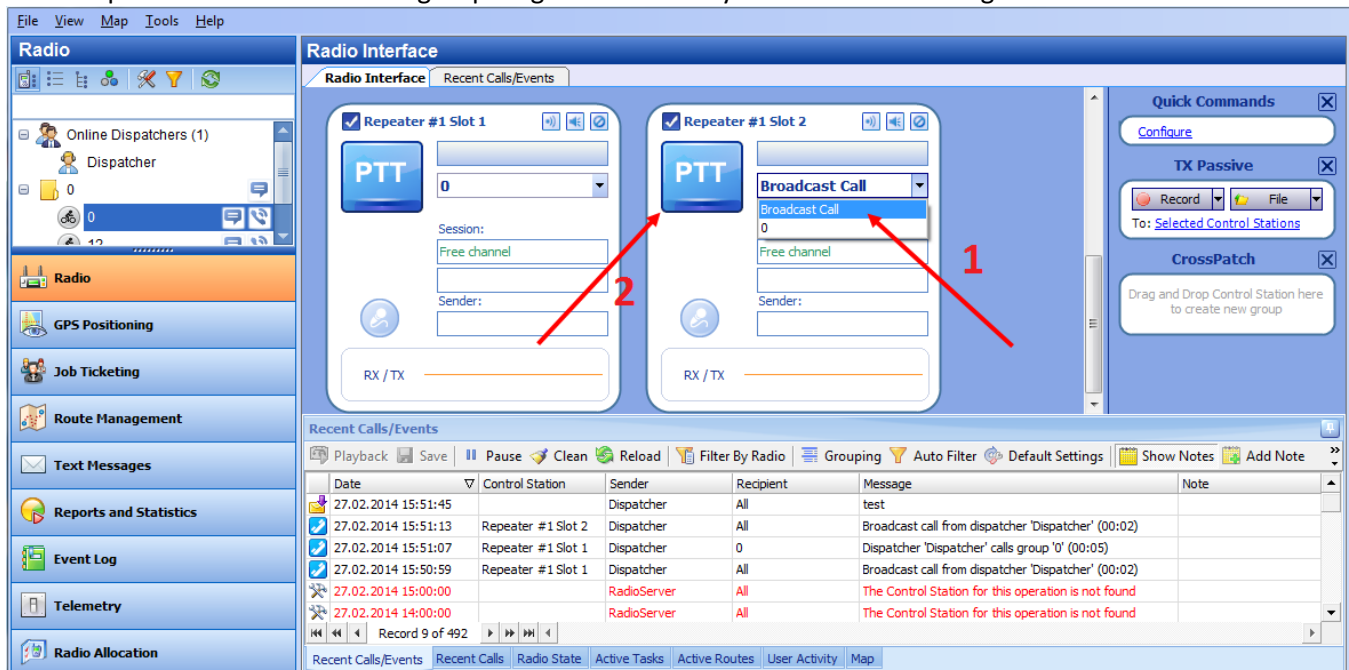
- Click «PTT» button
- Click  button.

Note: you may also create special boxes for Private Calls. *For more details see*

View, **Configure Control Stations** boxes section.

Broadcast Call

Dispatcher can make a call to all online radios registered in the system (e.g. in case of alarm). To make a call from Dispatch Console to all radio groups registered in the system do the following:



1 – select Broadcast Call type

2 – Click «PTT» button.

Radio box view in Transmission Mode:



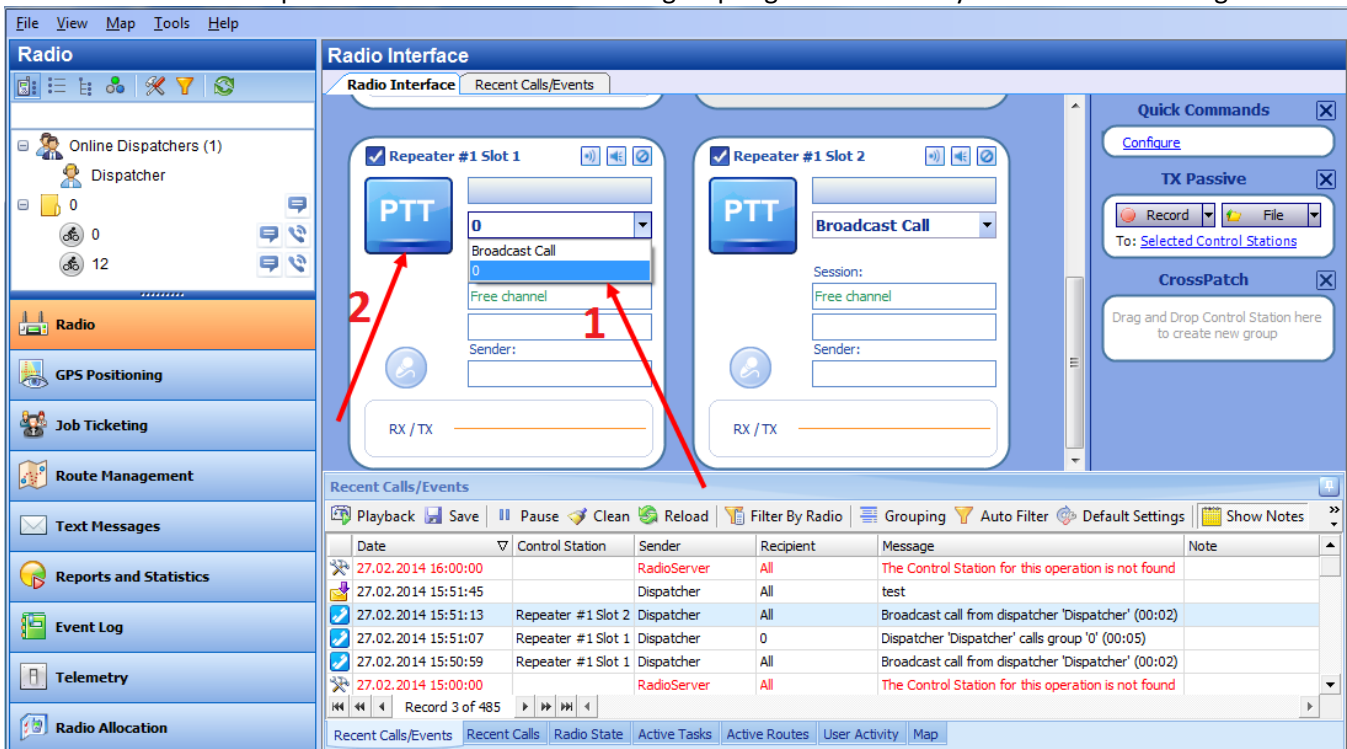
To terminate the call click «PTT» button.

Note: you may also create special boxes for Broadcast Calls. *For more details see*

View, **Configure Control Stations** boxes section.

Group Call

To make a call from Dispatch Console to selected radio group registered in the system do the following:



1 – select Group Call type

2 – Click «PTT» button.

Radio box view in Transmission Mode:



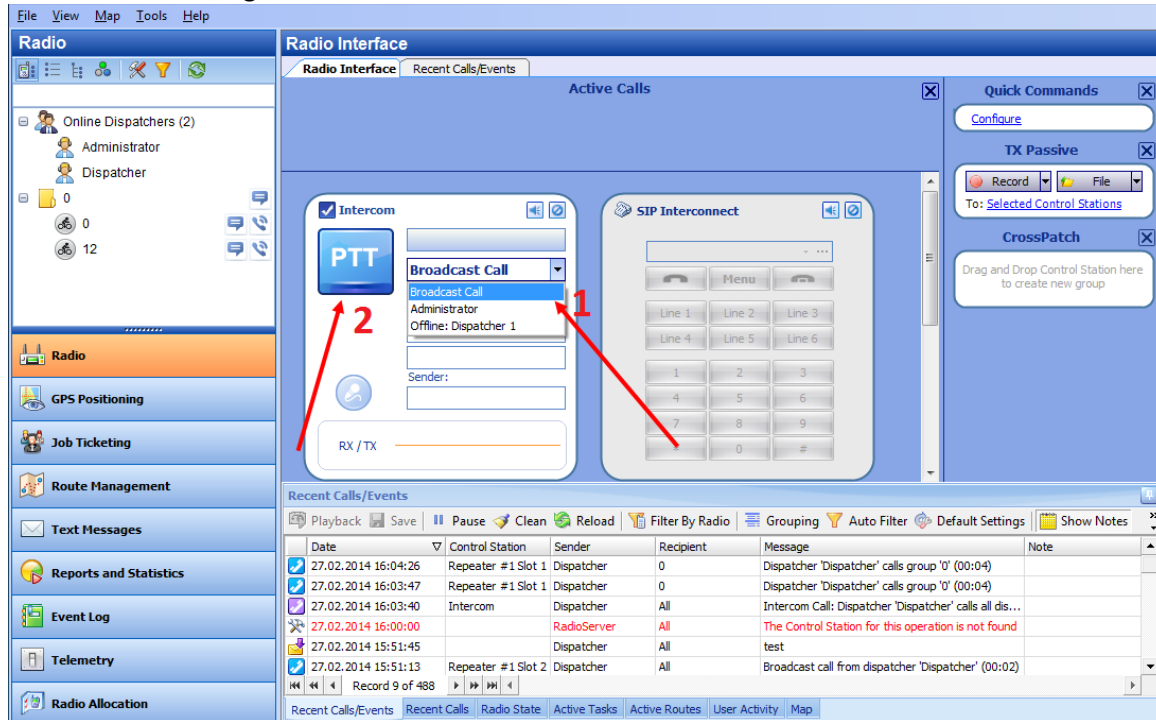
To terminate the call click «PTT» button.

Note: you may also create special boxes for Group Calls. For more details see

View [Configure Control Stations boxes](#) section.

Intercom Calls

Dispatcher can make calls to all dispatchers or to selected dispatcher in the system. In case when Dispatcher makes a call at this moment, he will see a notification about Intercom call. To make an Intercom Call to all Dispatchers do the following:



1 – select Intercom Call box and select Broadcast Call mode in the dropdown list

2 – click «PTT» button to start an Intercom Call.

Radio box view in Transmission Mode:

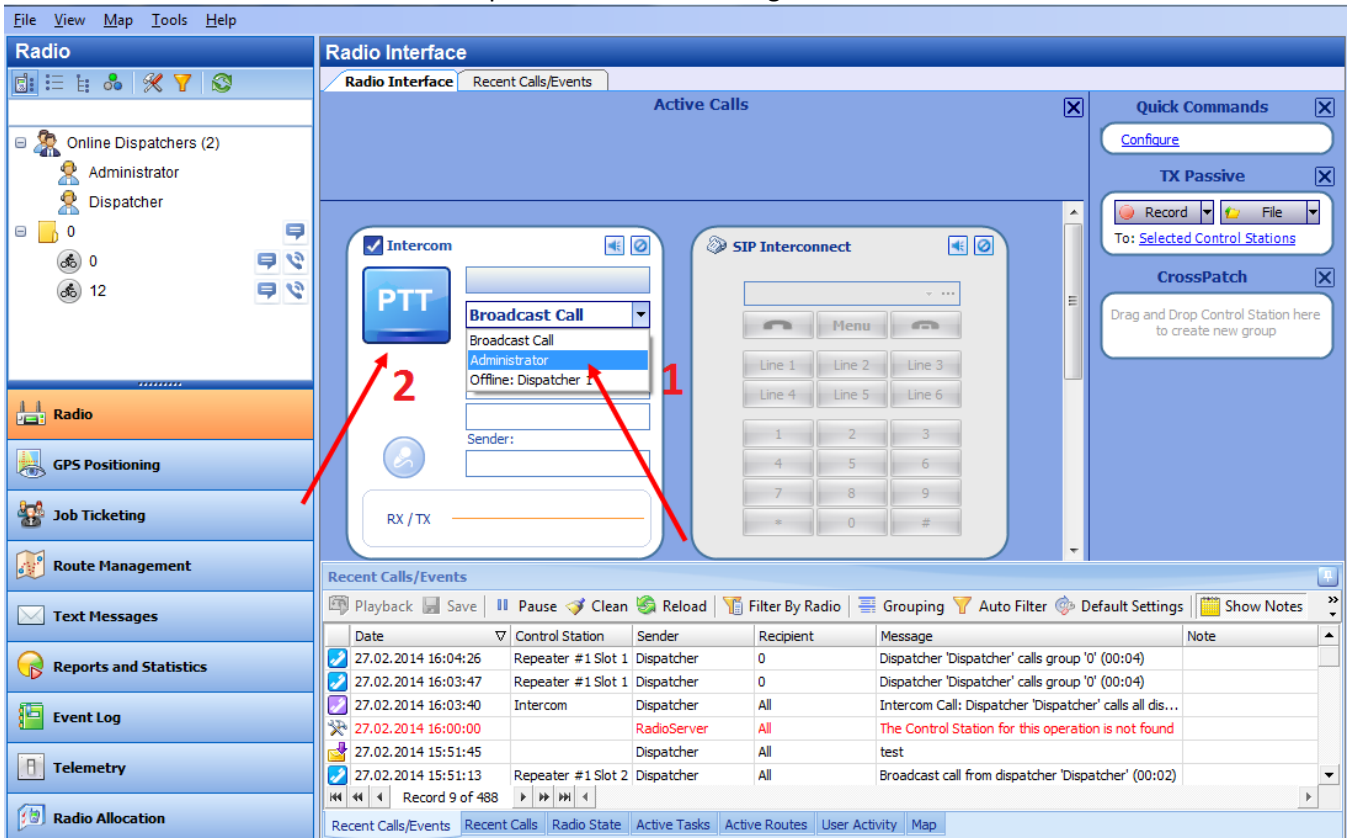


To terminate the call click «PTT» button.

Note: you may also create special boxes for Intercom Calls. *For more details see*

View, **Configure PTT boxes** section.

To make an Intercom Call to selected Dispatcher do the following:



Date	Control Station	Sender	Recipient	Message	Note
27.02.2014 16:04:26	Repeater #1 Slot 1	Dispatcher	0	Dispatcher 'Dispatcher' calls group '0' (00:04)	
27.02.2014 16:03:47	Repeater #1 Slot 1	Dispatcher	0	Dispatcher 'Dispatcher' calls group '0' (00:04)	
27.02.2014 16:03:40	Intercom	Dispatcher	All	Intercom Call: Dispatcher 'Dispatcher' calls all dis...	
27.02.2014 16:00:00		RadioServer	All	The Control Station for this operation is not found	
27.02.2014 15:51:45		Dispatcher	All	test	
27.02.2014 15:51:13	Repeater #1 Slot 2	Dispatcher	All	Broadcast call from dispatcher 'Dispatcher' (00:02)	

- 1 – select Intercom Call box and select online Dispatcher in the dropdown list
- 2 – click «PTT» button to start an Intercom Call.

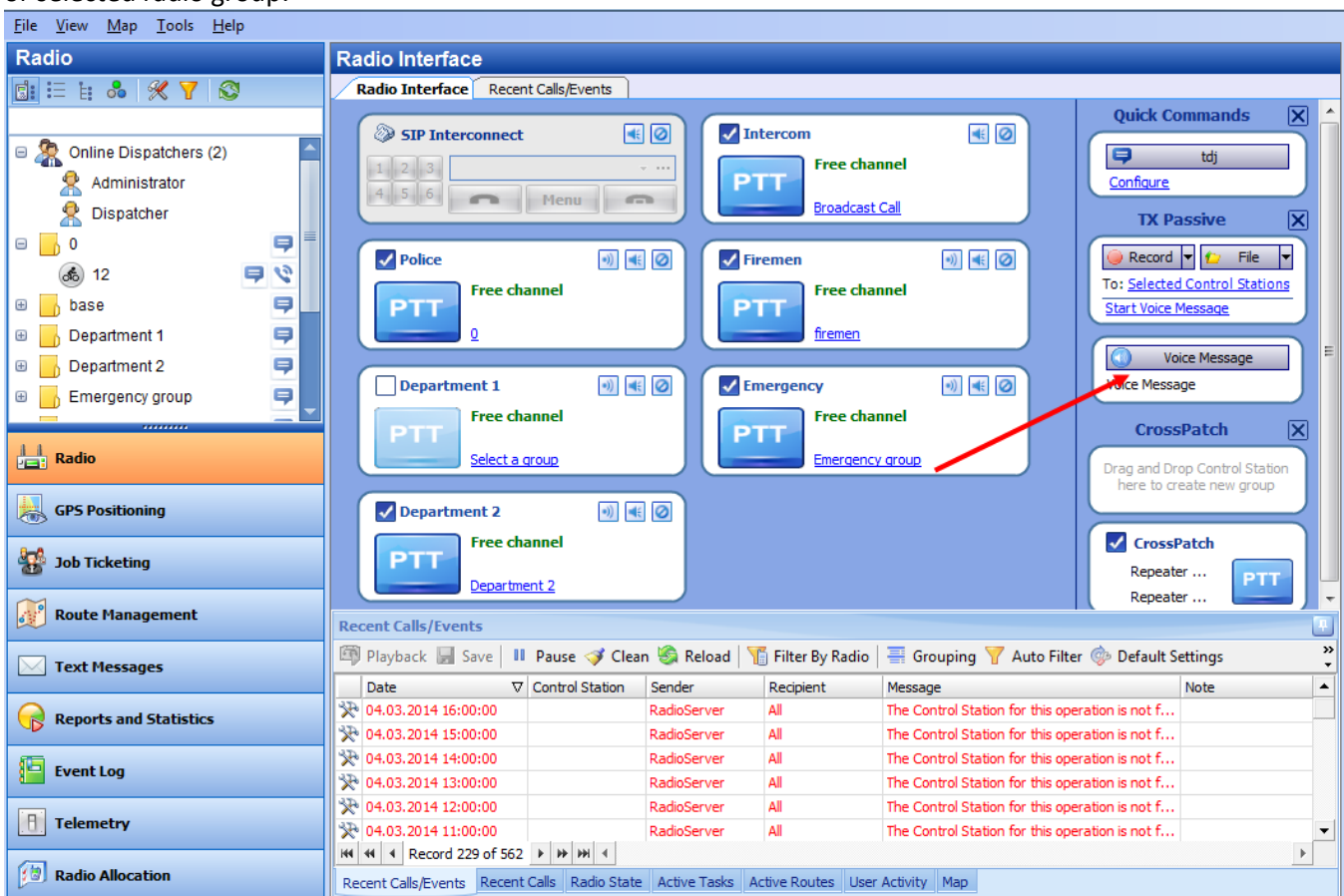
To terminate the call click «PTT» button.

Note: you may also create special boxes for Intercom Calls. *For more details see*

View [Configure PTT boxes](#) section.

Predefined Voice Messages to Radio Subscriber

Dispatcher can send predefined voice messages (recorded or voice messages or audio files) to radio subscriber or selected radio group:



The screenshot shows the TRBOnet Radio Interface. On the left is a sidebar with a tree view of 'Online Dispatchers (2)' including Administrator and Dispatcher, and a list of radio groups: 0, 12, base, Department 1, Department 2, and Emergency group. Below this are buttons for Radio, GPS Positioning, Job Ticketing, Route Management, Text Messages, Reports and Statistics, Event Log, Telemetry, and Radio Allocation. The main area is titled 'Radio Interface' and contains several 'PTT' (Push-to-Talk) buttons for different groups: SIP Interconnect, Intercom (Free channel, Broadcast Call), Police (Free channel), Firemen (Free channel, firemen), Department 1 (Free channel, Select a group), Emergency (Free channel, Emergency group), and Department 2 (Free channel, Department 2). A red arrow points to the 'Voice Message' button in the 'Quick Commands' panel on the right. Below the PTT buttons is a 'Recent Calls/Events' table.

Date	Control Station	Sender	Recipient	Message	Note
04.03.2014 16:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 15:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 14:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 13:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 12:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 11:00:00		RadioServer	All	The Control Station for this operation is not f...	

At the bottom of the interface are tabs for 'Recent Calls/Events', 'Recent Calls', 'Radio State', 'Active Tasks', 'Active Routes', 'User Activity', and 'Map'.

Click **Voice Message** box to send the message.

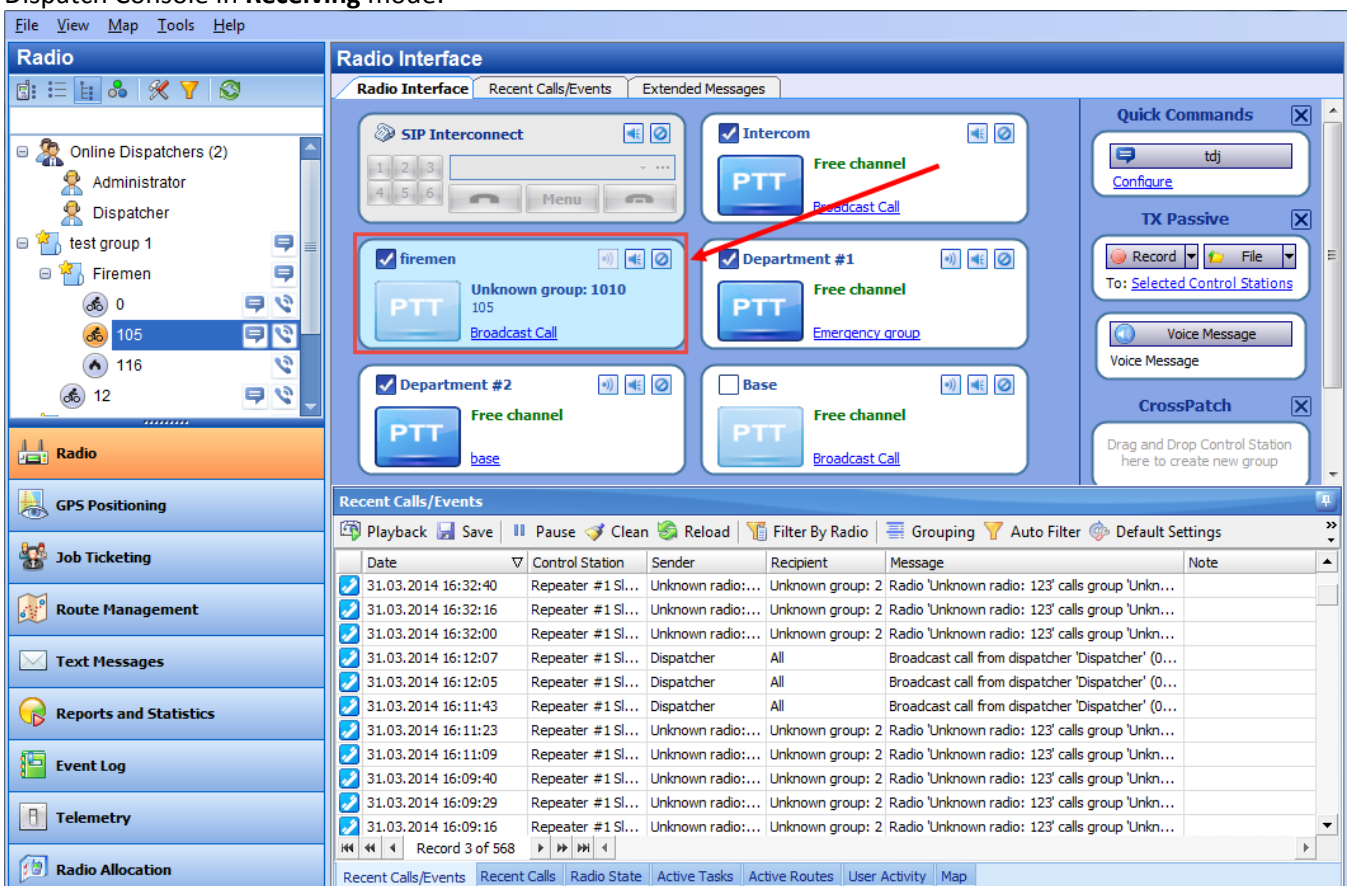
For more details on Voice Message displaying and sending properties see

View, **Saved Audio Files** section.

This option allows adding Voice Messages on the Calls Pane to send it by clicking **Voice Message** box.

Receiving Mode

Dispatch Console in **Receiving** mode:



Radio Interface

Radio Interface Recent Calls/Events Extended Messages

Quick Commands

tdj
[Configure](#)

TX Passive

Record File
 To: [Selected Control Stations](#)

Voice Message
 Voice Message

CrossPatch

Drag and Drop Control Station here to create new group

Recent Calls/Events

Date	Control Station	Sender	Recipient	Message	Note
31.03.2014 16:32:40	Repeater #1 SL...	Unknown radio:...	Unknown group: 2	Radio 'Unknown radio: 123' calls group 'Unkn...	
31.03.2014 16:32:16	Repeater #1 SL...	Unknown radio:...	Unknown group: 2	Radio 'Unknown radio: 123' calls group 'Unkn...	
31.03.2014 16:32:00	Repeater #1 SL...	Unknown radio:...	Unknown group: 2	Radio 'Unknown radio: 123' calls group 'Unkn...	
31.03.2014 16:12:07	Repeater #1 SL...	Dispatcher	All	Broadcast call from dispatcher 'Dispatcher' (0...	
31.03.2014 16:12:05	Repeater #1 SL...	Dispatcher	All	Broadcast call from dispatcher 'Dispatcher' (0...	
31.03.2014 16:11:43	Repeater #1 SL...	Dispatcher	All	Broadcast call from dispatcher 'Dispatcher' (0...	
31.03.2014 16:11:23	Repeater #1 SL...	Unknown radio:...	Unknown group: 2	Radio 'Unknown radio: 123' calls group 'Unkn...	
31.03.2014 16:11:09	Repeater #1 SL...	Unknown radio:...	Unknown group: 2	Radio 'Unknown radio: 123' calls group 'Unkn...	
31.03.2014 16:09:40	Repeater #1 SL...	Unknown radio:...	Unknown group: 2	Radio 'Unknown radio: 123' calls group 'Unkn...	
31.03.2014 16:09:29	Repeater #1 SL...	Unknown radio:...	Unknown group: 2	Radio 'Unknown radio: 123' calls group 'Unkn...	
31.03.2014 16:09:16	Repeater #1 SL...	Unknown radio:...	Unknown group: 2	Radio 'Unknown radio: 123' calls group 'Unkn...	

Record 3 of 568

Recent Calls/Events Recent Calls Radio State Active Tasks Active Routes User Activity Map

In **Receiving** mode Dispatcher receives a tone signal.

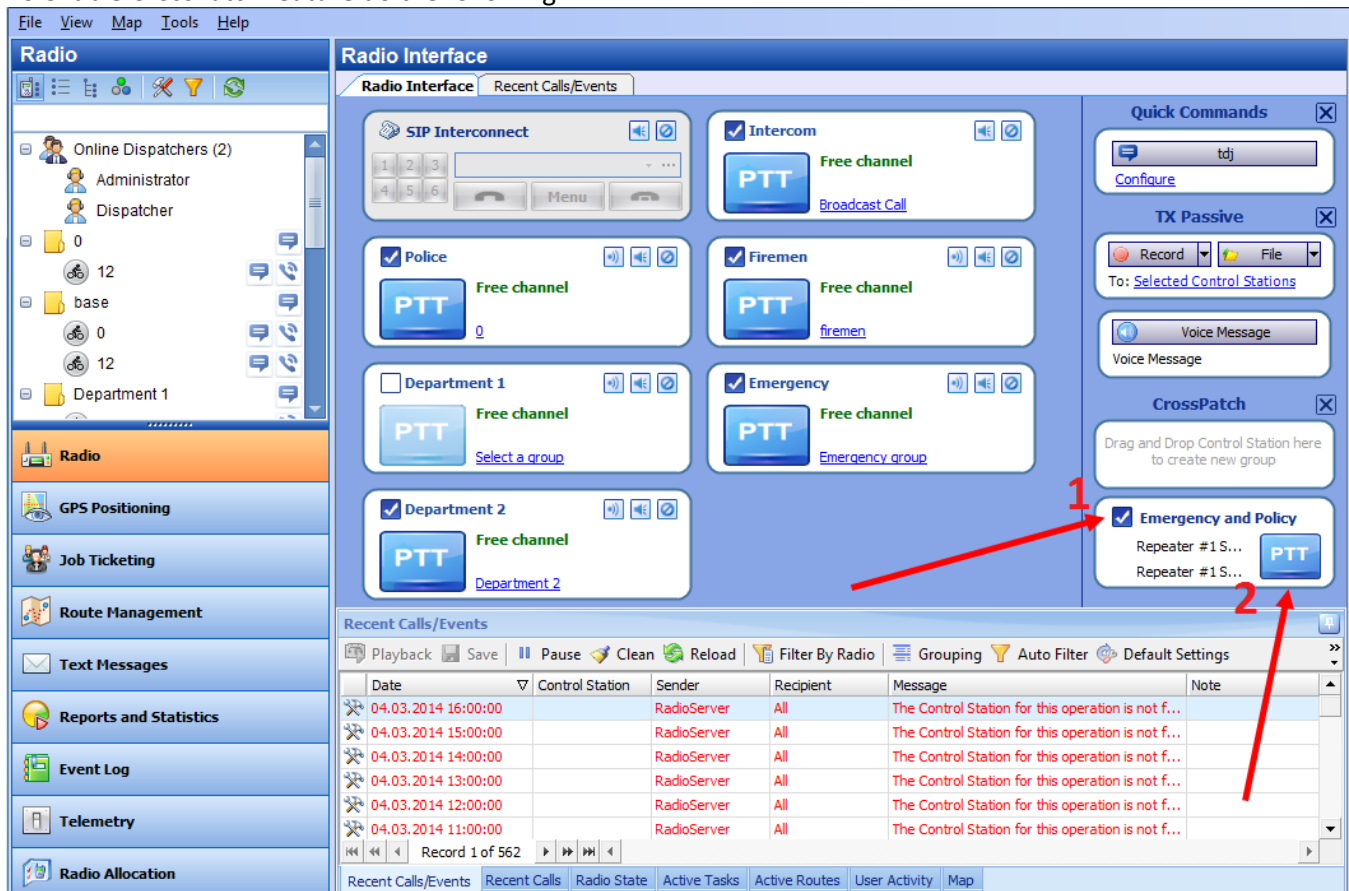
In **Receiving** mode the PTT button disabled. It enables again once the calling subscriber or dispatcher finishes transmission.

CrossPatch

Enable Predefined Cross Patch

TRBOnet Dispatch Software provides the **Cross Patch** function. Cross Patch allows configuring the network to redirect calls. Predefined CrossPatch can be created by Administrator only and Dispatcher cannot configure it. Predefined CrossPatch is displayed in Radio Interface by default. CrossPatch feature is intended to unite radio subscribers from different radio groups to one talk group to make a voice calls from dispatcher to radios and from radios to dispatcher (e.g. to connect dispatcher with firemen and drivers). You can also unite analogue and digital radios via CrossPatch.

To enable CrossPatch feature do the following:



The screenshot shows the TRBOnet Radio Interface. On the left is a sidebar with navigation options: Radio, GPS Positioning, Job Ticketing, Route Management, Text Messages, Reports and Statistics, Event Log, Telemetry, and Radio Allocation. The main area is titled 'Radio Interface' and contains several panels. The 'CrossPatch' panel is highlighted, showing a list of control stations with checkboxes for enabling the feature. A red arrow labeled '1' points to the 'CrossPatch' checkbox, and another red arrow labeled '2' points to the 'Emergency and Policy' checkbox. Below the CrossPatch panel is a 'Recent Calls/Events' table.

Date	Control Station	Sender	Recipient	Message	Note
04.03.2014 16:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 15:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 14:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 13:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 12:00:00		RadioServer	All	The Control Station for this operation is not f...	
04.03.2014 11:00:00		RadioServer	All	The Control Station for this operation is not f...	

1 - check CrossPatch box to enable the feature

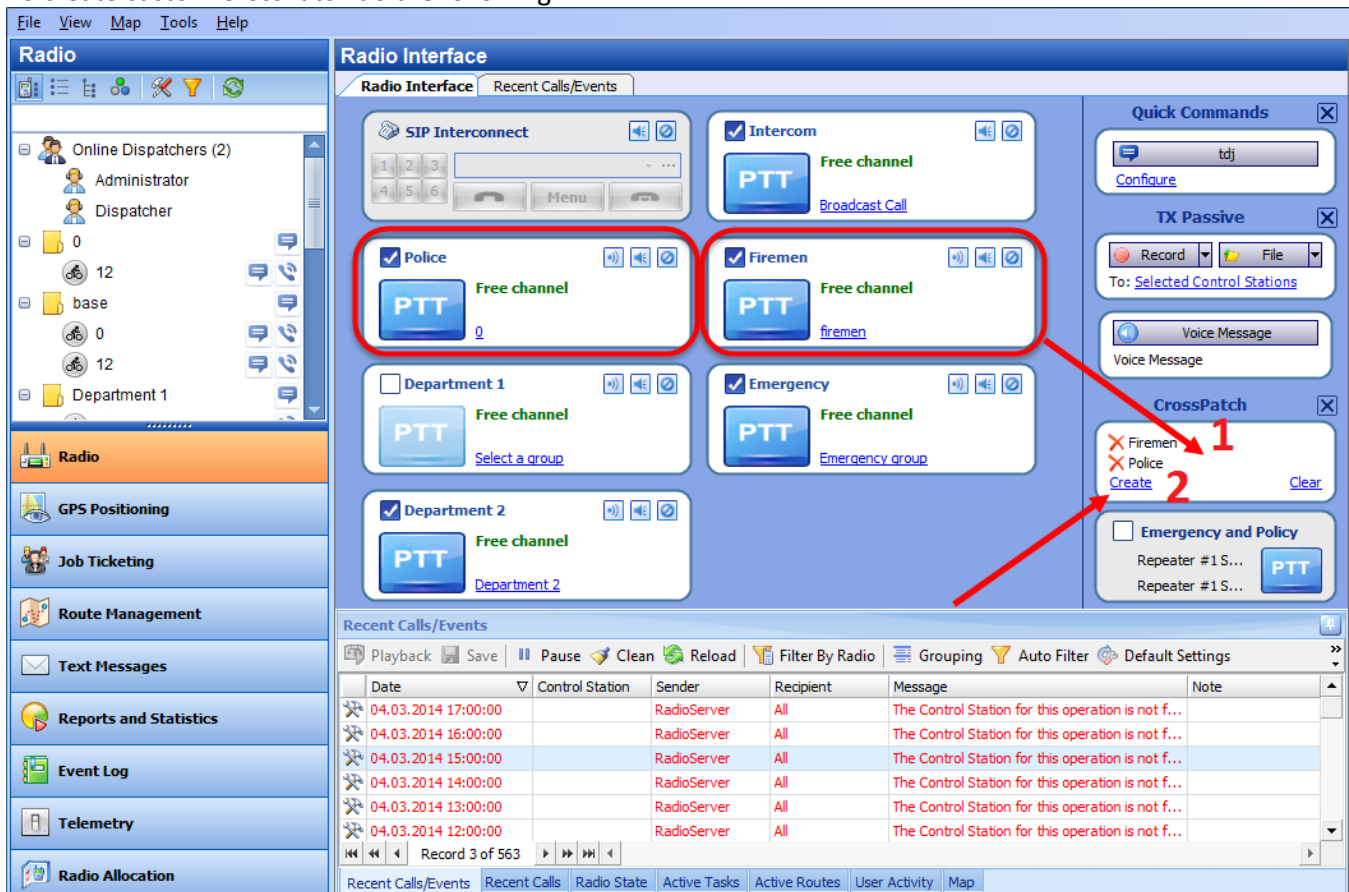
2 – Click «PTT» button to start CrossPatch session.

Note: CrossPatch can be created in Radio Interface. It is a temporary CrossPatch, it will be deleted after reconnection to TRBOnet Dispatch Software server or exit Dispatch Console.

Create Custom CrossPatch

Dispatcher can create Custom CrossPatch to connect selected radio boxes (e.g. Emergency radio group and Firemen radio group). You can also connect analogue and digital radios via CrossPatch.

To create custom CrossPatch do the following:



The screenshot shows the 'Radio Interface' window with several radio boxes. The 'Police' and 'Firemen' boxes are highlighted with red rectangles. Red arrows point from these boxes to the 'CrossPatch' section on the right. In the 'CrossPatch' section, the 'Create' button is highlighted with a red circle and the number '2'. The 'CrossPatch' section also shows a list of existing patches and a 'Clear' button.

- 1 – select boxes in Radio Interface you want to connect. Drag and drop them to the empty CrossPatch box
- 2 – click «Create» button to create custom CrossPatch.

Click «PTT» button to start CrossPatch session.

Note: you cannot connect via CrossPatch two radio groups on the same radio channel.

Note: CrossPatch can be created in Radio Interface. It is a temporary CrossPatch, it will be deleted after reconnection to TRBOnet Dispatch Software server or exit Dispatch Console.

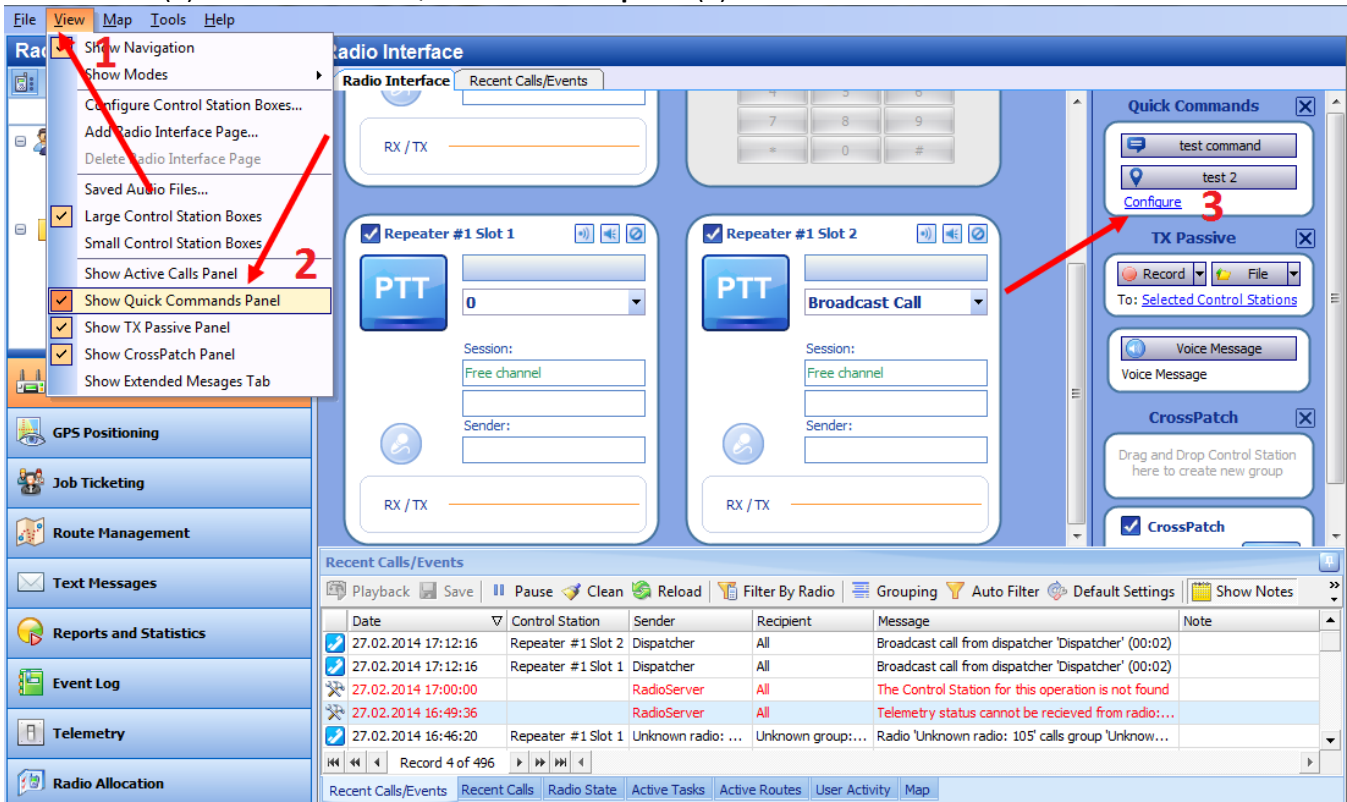
Configure Quick Commands

Dispatcher can create Quick Commands (Text Messages, Send Telemetry, Request Location, Send Voice Message) and to display these commands panel in Radio Interface, so you can quickly send Text Message, Telemetry, request radio location and send Voice Message to radio by clicking selected quick command button.

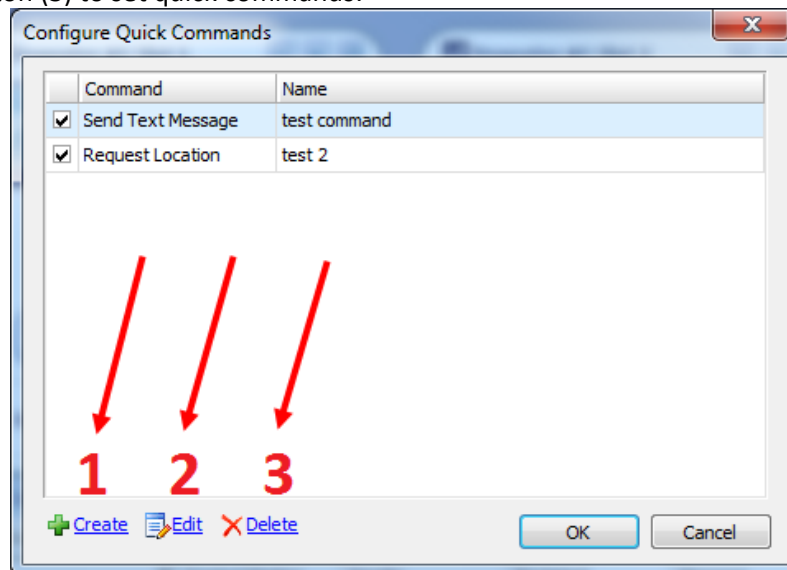
To configure Quick Commands do the following:

Go to

View section (1) and select Show **Quick Commands** panel (2):

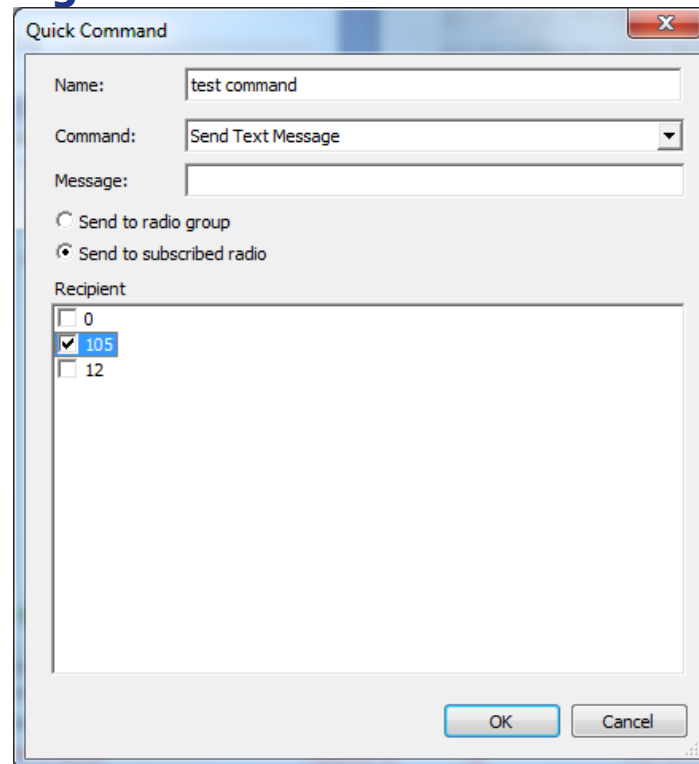


Click «**Configure**» button (3) to set quick commands:



Click «**Create**» button (1) to add new quick command.

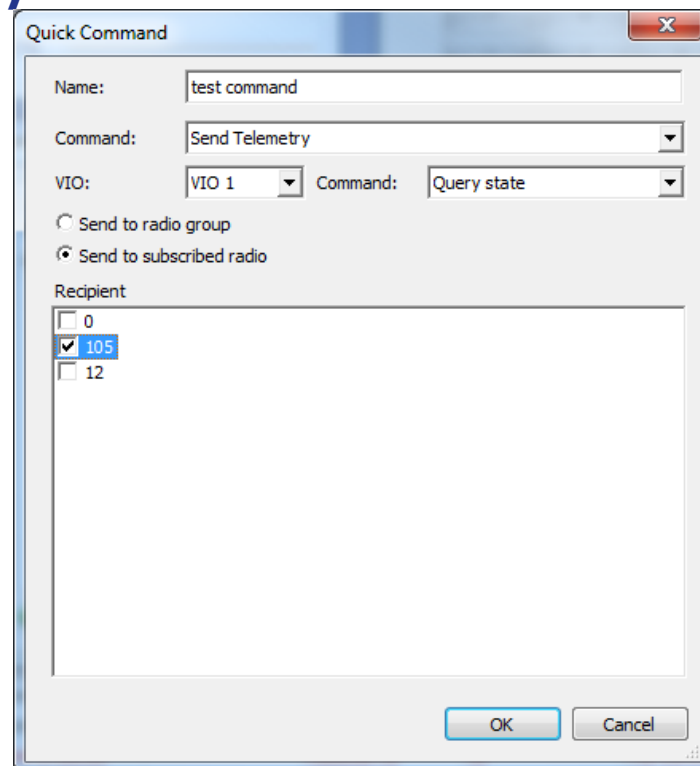
Send Text Message



- **Name** – select name for new quick command
- **Command** – select Send Text Message in the dropdown list
- **Message** – type in message text
- **Send to radio group** – select to send predefined text message to radio groups registered in the system and specify groups to send text message
- **Send to subscribed radio** – select to send predefined text message to radios registered in the system and specify radios to send text message.

Click «**OK**» to add the quick command.

Send Telemetry



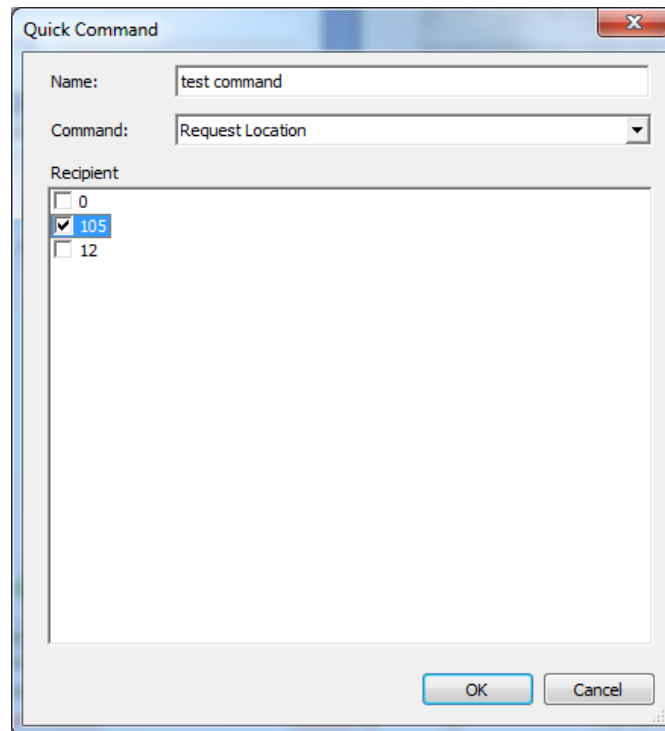
The 'Quick Command' dialog box contains the following fields and options:

- Name:** A text input field containing 'test command'.
- Command:** A dropdown menu with 'Send Telemetry' selected.
- VIO:** A dropdown menu with 'VIO 1' selected.
- Command:** A dropdown menu with 'Query state' selected.
- Send to radio group:** An unselected radio button.
- Send to subscribed radio:** A selected radio button.
- Recipient:** A list box containing three items: '0', '105', and '12'. The item '105' is selected and highlighted.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

- **Name** – select name for new quick command
- **Command** – select Send Telemetry in the dropdown list
- **VIO** – specify a VIO to send a telemetry command;
- **Command** – specify a command for selected VIO;
- **Send to radio group** – select to send telemetry to radio groups registered in the system and specify groups
- **Send to subscribed radio** – select to send telemetry to radios registered in the system and specify radios.

Click «OK» to add the quick command.

Request Location



The dialog box is titled "Quick Command". It contains the following fields:

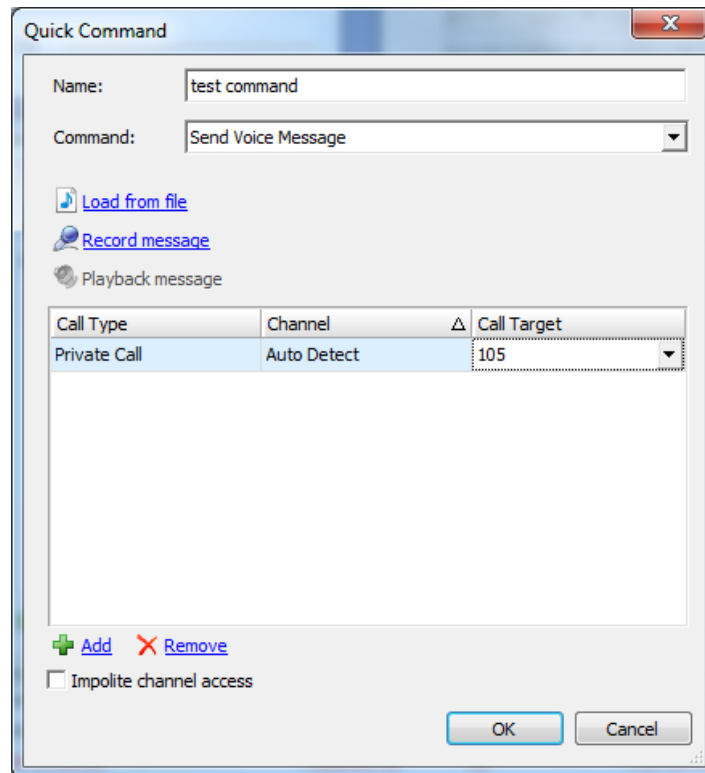
- Name:** A text input field containing "test command".
- Command:** A dropdown menu with "Request Location" selected.
- Recipient:** A list box with three items: "0", "105", and "12". The item "105" is selected, indicated by a checkmark and a blue highlight.

At the bottom right of the dialog box are two buttons: "OK" and "Cancel".

- **Name** – select name for new quick command
- **Command** – select Request Location in the dropdown list
- **Recipient** – select radio to request location.

Click «**OK**» to add the quick command.


Voice Message



Call Type	Channel	Call Target
Private Call	Auto Detect	105

- **Name** – select name for new quick command
- **Command** – select Send Voice Message in the dropdown list
- **Load from file** - choose to load an existing file from your PC;
- **Record Message** - choose to record new message;
- **Playback message** - choose to playback an existing message.

Specify **call type**, **channel** and **call target** for voice message:

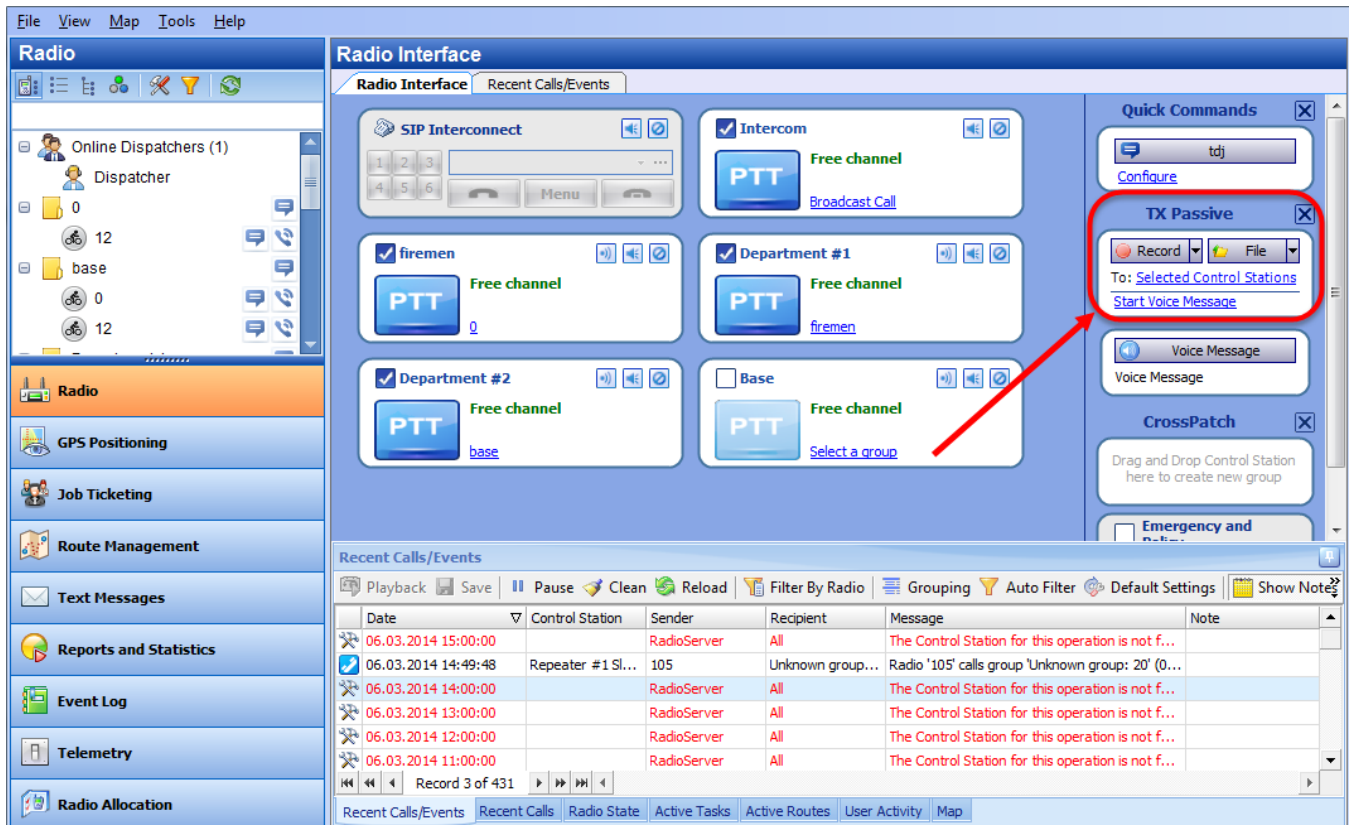
Note: to send a Voice Message to a subscriber from a phone book click  button in the Call Target column and select the contact in the phone book.

- **Impolite channel access** - the radio will always transmit when the Push-to-Talk (PTT) button is pressed (not available in a Capacity Plus Personality channel).

Click «**OK**» to add the quick command.

TX Passive

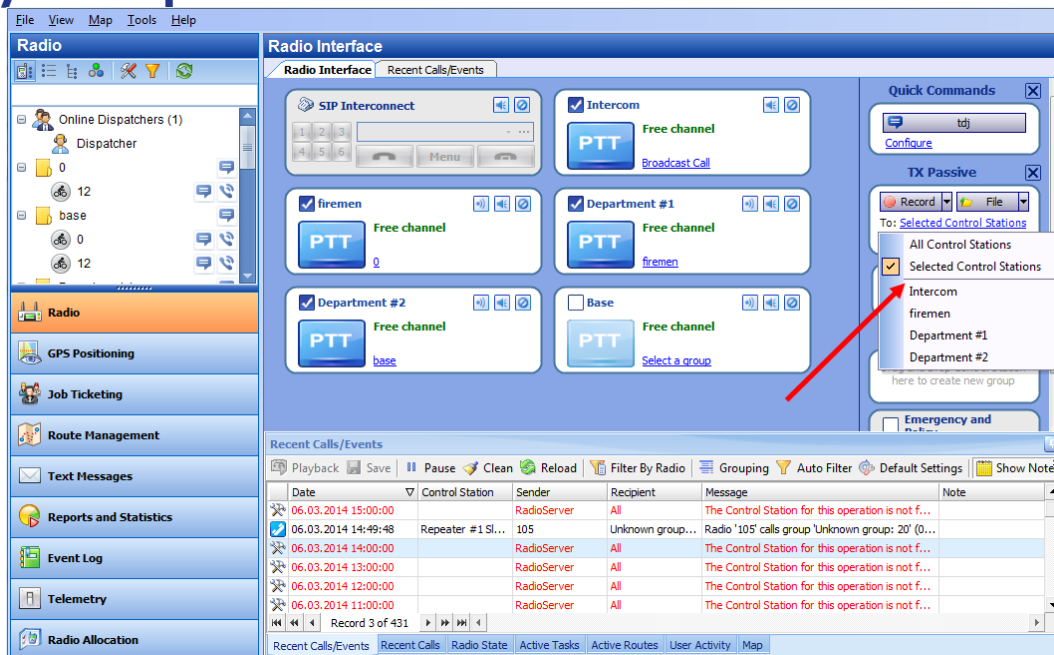
This feature enables dispatchers to queue messages in a situation when a message must be transmitted but the channel is currently busy. The dispatcher records a message on a busy channel and then TRBOnet broadcasts this message as soon as the channel becomes available. The TX Passive function is presented in the Radio interface:



The screenshot displays the TRBOnet Radio Interface. On the left is a sidebar with navigation options: Radio, GPS Positioning, Job Ticketing, Route Management, Text Messages, Reports and Statistics, Event Log, Telemetry, and Radio Allocation. The main area is titled 'Radio Interface' and contains several control panels for different radio groups, each with a 'PTT' (Push To Talk) button and status indicators like 'Free channel'. A red box highlights the 'TX Passive' section in the 'Quick Commands' panel on the right, which includes buttons for 'Record' and 'File', and a dropdown menu set to 'Selected Control Stations'. A red arrow points from the 'TX Passive' section to the 'Record' button. Below the main interface is a 'Recent Calls/Events' table.

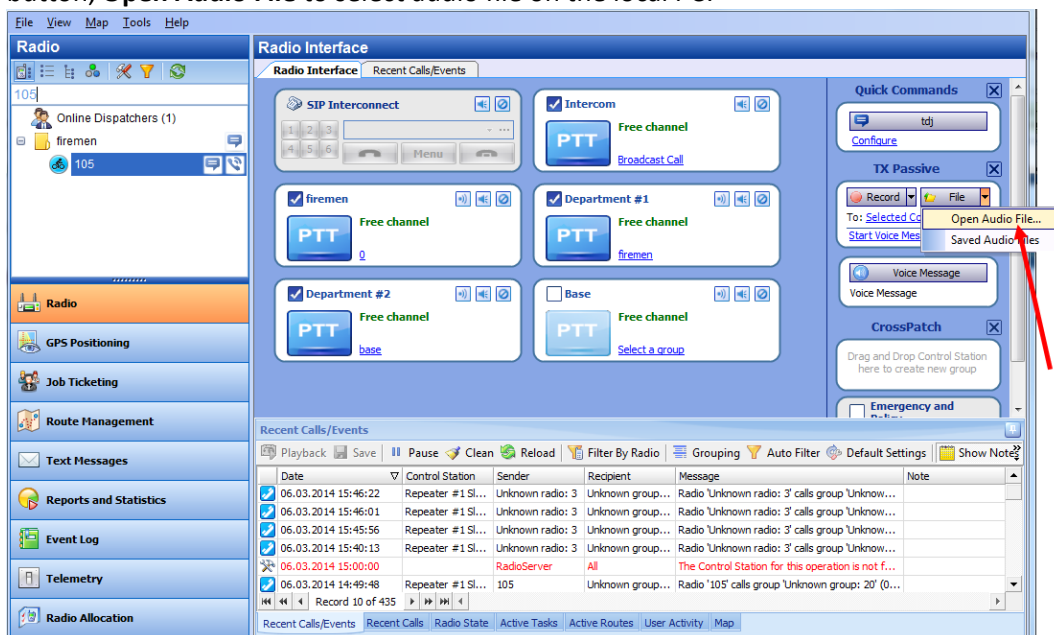
Date	Control Station	Sender	Recipient	Message	Note
06.03.2014 15:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 14:49:48	Repeater #1 Sl...	105	Unknown group...	Radio '105' calls group 'Unknown group: 20' (0...	
06.03.2014 14:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 13:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 12:00:00		RadioServer	All	The Control Station for this operation is not f...	
06.03.2014 11:00:00		RadioServer	All	The Control Station for this operation is not f...	

Specify a Recipient



Select Audio File

Click «File» button, **Open Audio File** to select audio file on the local PC:

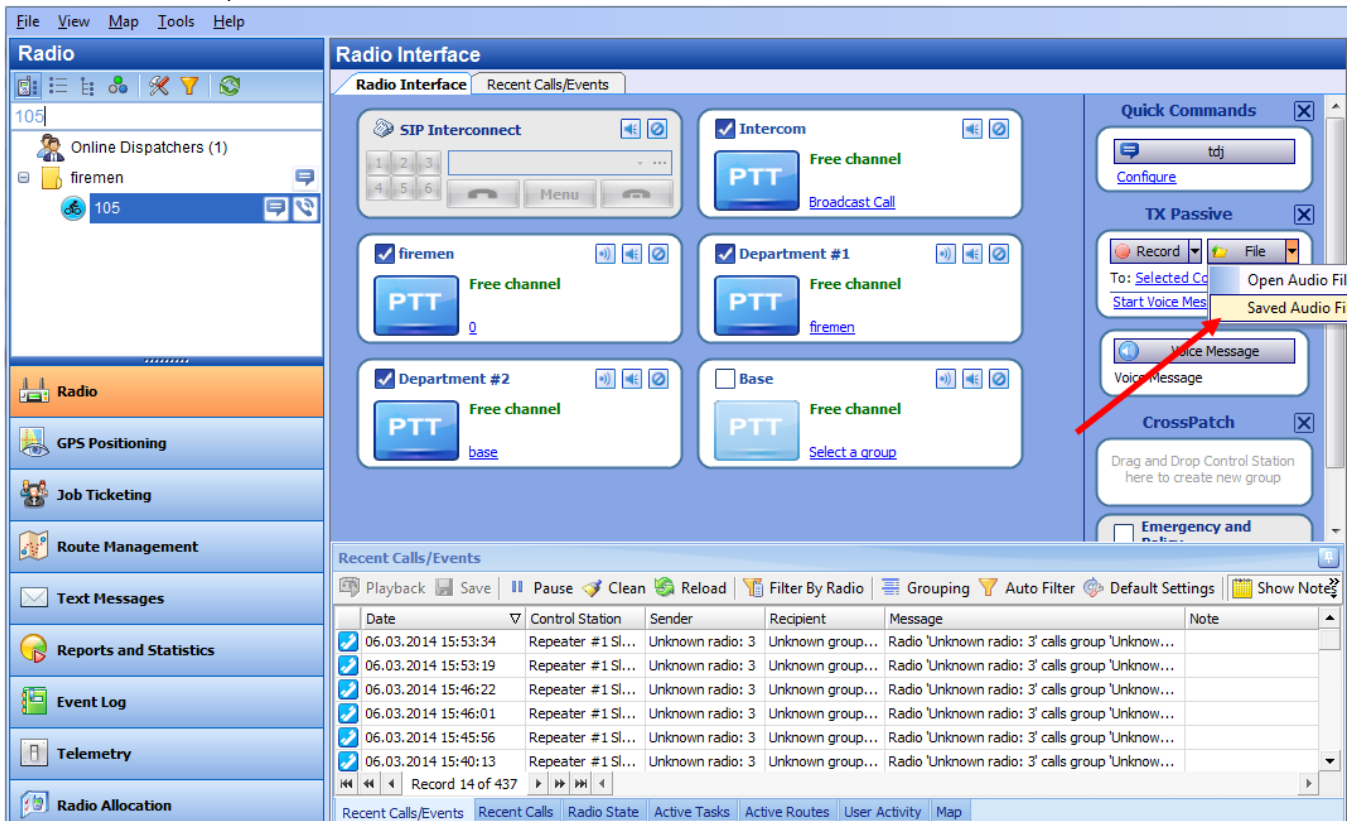


Selected audio file (.wav*, .mp3 supported) can be sent to selected radio.

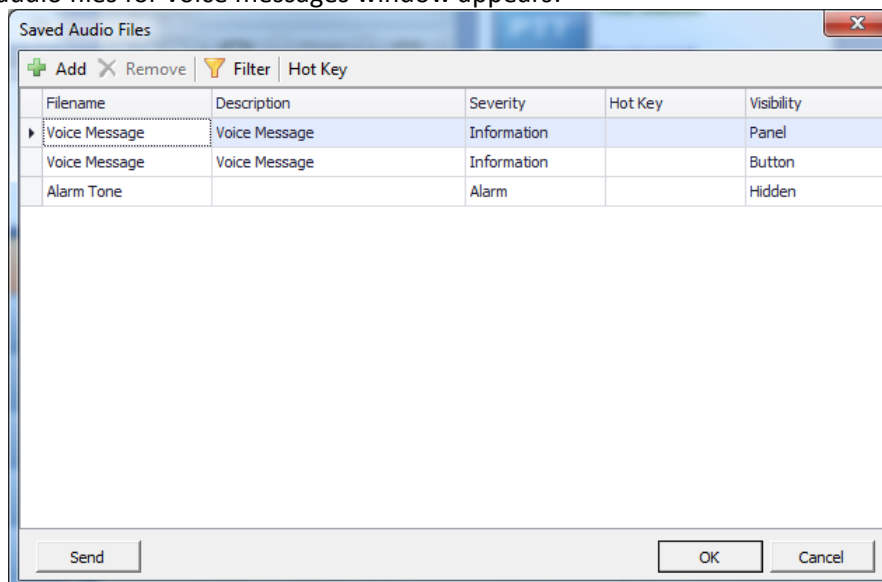
Saved Audio Files

You can select audio file from Voice Message templates.

Click «File» button, **Saved Audio Files**:



Predefined saved audio files for voice messages window appears:

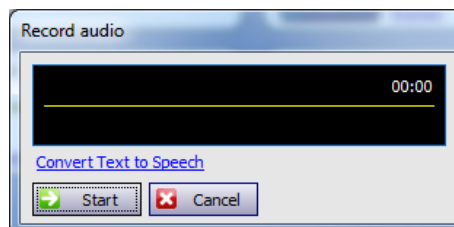
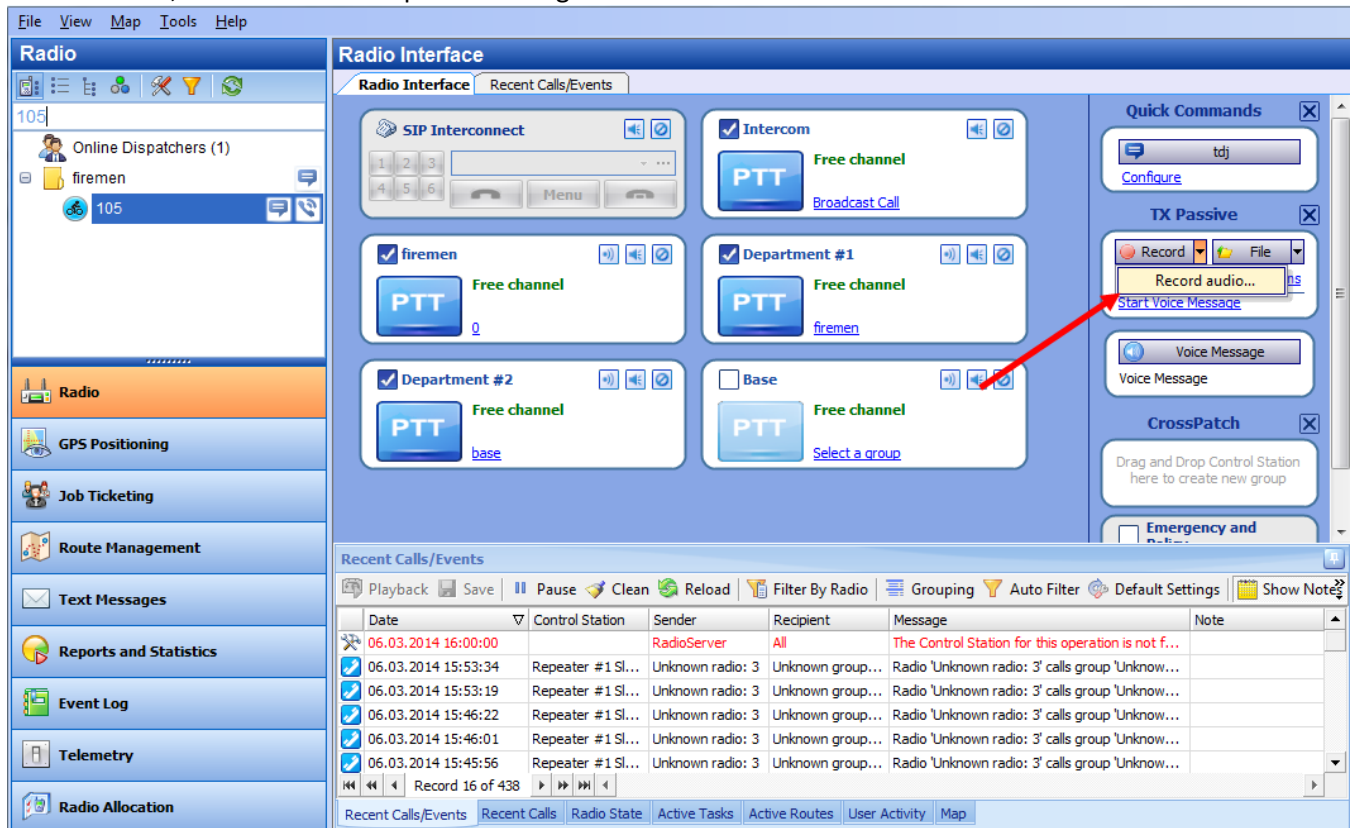


Select audio file in the list and click «OK» to use this file as a Voice Message for TX Passive option.

Record Audio File

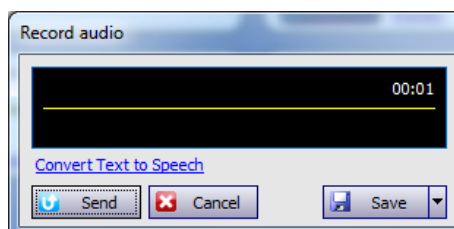
You can record a voice message to send to selected radio/s.

Select **Record**, **Record Audio** to open recording tool:



Click «**Start**» to start audio recording.

Click Stop to finish audio recording.



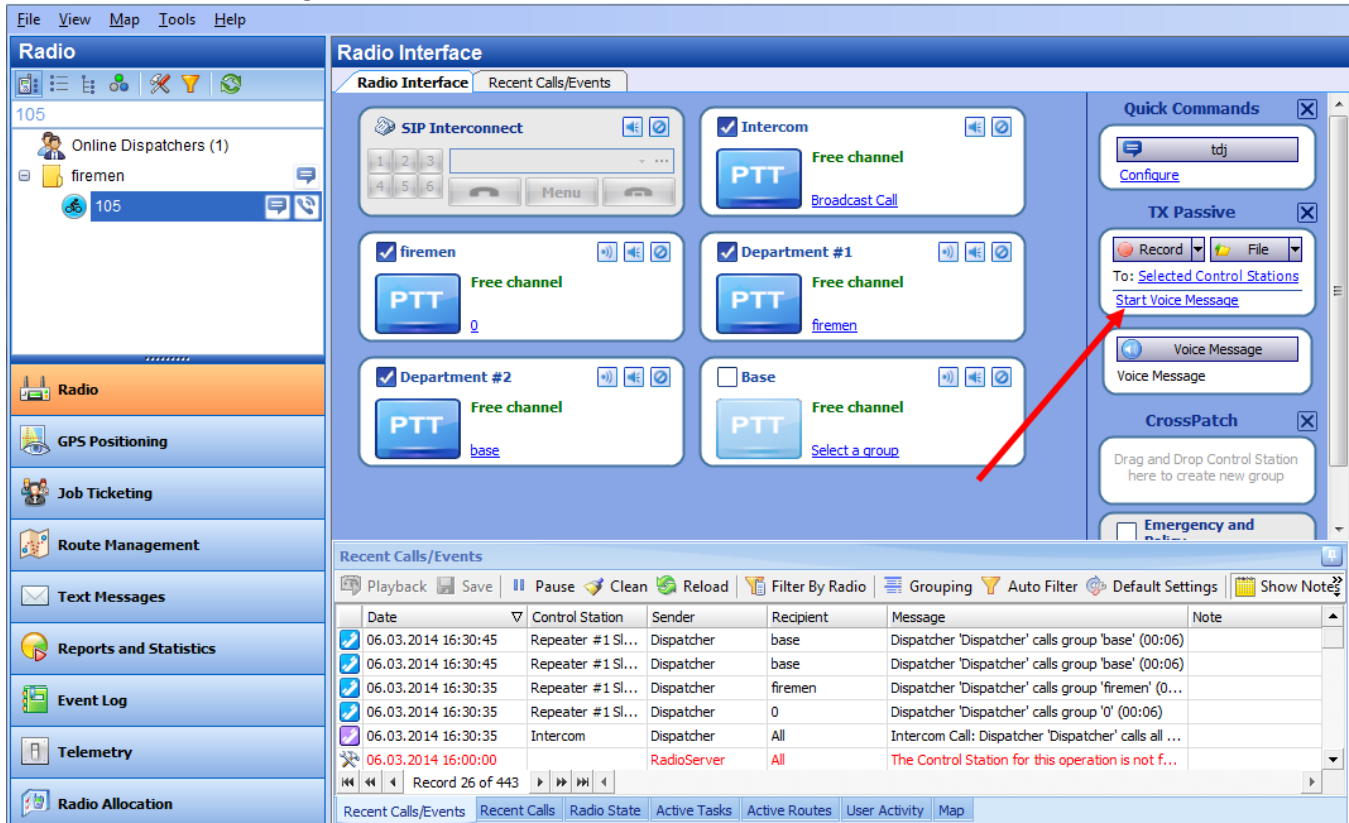
Click «**Send**» button to send recorded audio file immediately.

Select **Save**, **Save as file** to save the recorded file as audio file on the PC.

Select **Save**, **Save as Saved Audio File** to add recorded file in the list of Saved Audio Files. Then you can anytime use it for Voice Message task or for TX Passive.

Click «**Cancel**» to close recording tool window.

Click «**Start Voice Message**» to send selected audio file to radio/s:



The screenshot shows the TRBOnet software interface. On the left is a sidebar with various menu items: Radio, GPS Positioning, Job Ticketing, Route Management, Text Messages, Reports and Statistics, Event Log, Telemetry, and Radio Allocation. The main window is titled 'Radio Interface' and contains several panels. The 'Radio Interface' panel shows a grid of radio channels with 'PTT' (Push-to-Talk) buttons and status indicators like 'Free channel'. The 'Quick Commands' panel on the right includes a 'Record' button, a 'File' button, and a 'Start Voice Message' button, which is highlighted by a red arrow. Below these panels is a 'Recent Calls/Events' table.

Date	Control Station	Sender	Recipient	Message	Note
06.03.2014 16:30:45	Repeater #1 Sl...	Dispatcher	base	Dispatcher 'Dispatcher' calls group 'base' (00:06)	
06.03.2014 16:30:45	Repeater #1 Sl...	Dispatcher	base	Dispatcher 'Dispatcher' calls group 'base' (00:06)	
06.03.2014 16:30:35	Repeater #1 Sl...	Dispatcher	firemen	Dispatcher 'Dispatcher' calls group 'firemen' (0...	
06.03.2014 16:30:35	Repeater #1 Sl...	Dispatcher	0	Dispatcher 'Dispatcher' calls group '0' (00:06)	
06.03.2014 16:30:35	Intercom	Dispatcher	All	Intercom Call: Dispatcher 'Dispatcher' calls all ...	
06.03.2014 16:00:00		RadioServer	All	The Control Station for this operation is not f...	

Dock Window

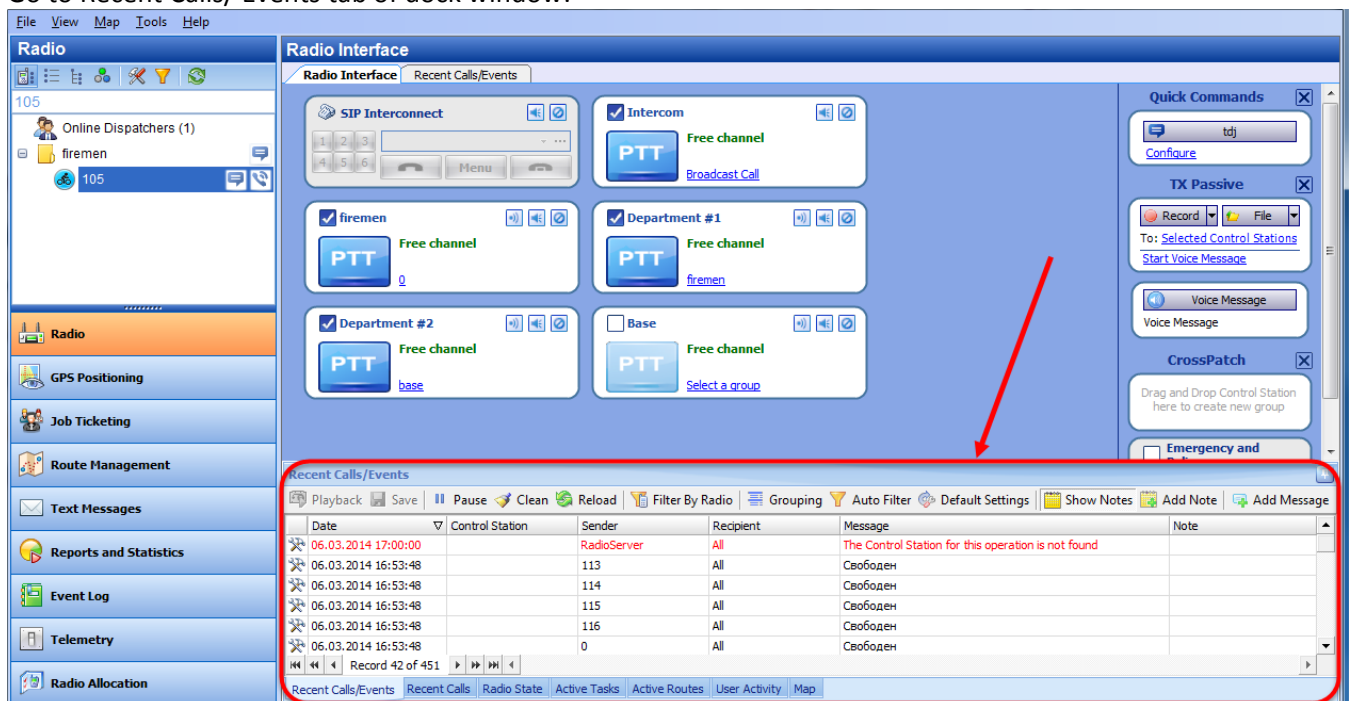
Dock Window performs the following dispatcher actions:

- Monitor and listen to recent calls and view RadioServer events
- Monitor selected radio state
- Monitor active tasks for selected radio
- Monitor active routes for selected radio
- Enable and disable User Activity monitoring
- Display selected map in minimized mode

Recent Calls/Events Tab

On the **Recent Calls/ Events** tab Dispatcher can monitor recent RadioServer events, view and listen to recent calls.

Go to Recent Calls/ Events tab of dock window:



Recent Calls/Events

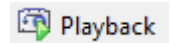
Date	Control Station	Sender	Recipient	Message	Note
06.03.2014 17:00:00		RadioServer	All	The Control Station for this operation is not found	
06.03.2014 16:53:48		113	All	Свободен	
06.03.2014 16:53:48		114	All	Свободен	
06.03.2014 16:53:48		115	All	Свободен	
06.03.2014 16:53:48		116	All	Свободен	
06.03.2014 16:53:48		0	All	Свободен	

Record 42 of 451

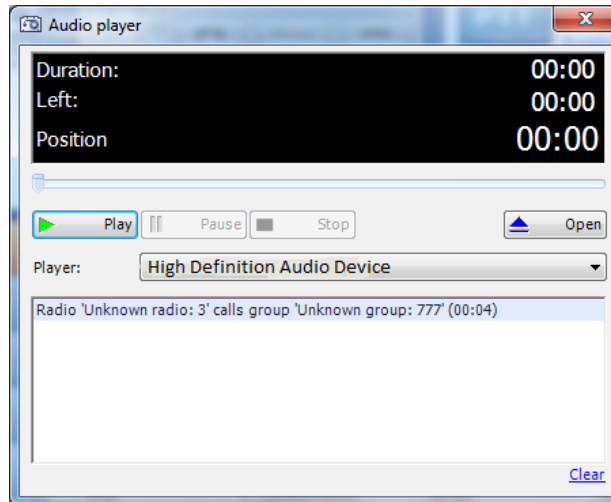
Recent Calls/Events | Recent Calls | Radio State | Active Tasks | Active Routes | User Activity | Map

Voice Recording

1. **To playback selected call** – select the recording you want to playback and click button.



Audio player window appears:




Click «**Player**» dropdown list and select playback device.

Click «**Play**» button to playback the recording.


Click «**Pause**» button to make a pause.


Click «**Stop**» button to finish recording playback.

Click «**Open**» button to select new audio file to playback.

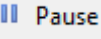
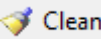
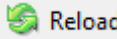
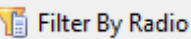
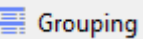
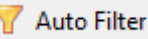
Note: you can playback several recordings. Hold «**Ctrl**» key and select recordings you want to playback. Then click  **Playback** button.

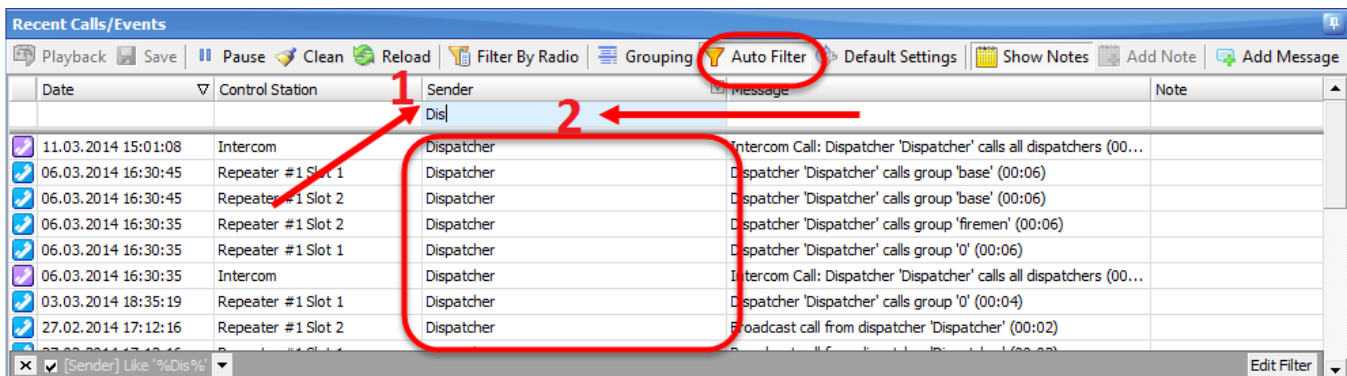
2. **Save** – Dispatcher can save the recordings.

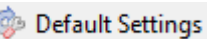
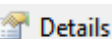
To save a number of recordings as individual files select recordings you want to save (use «**Ctrl**» key) click  **Save** button and select **Save Selection as Individual Files**. Then specify a folder on the local PC to save recordings as separated audio files.

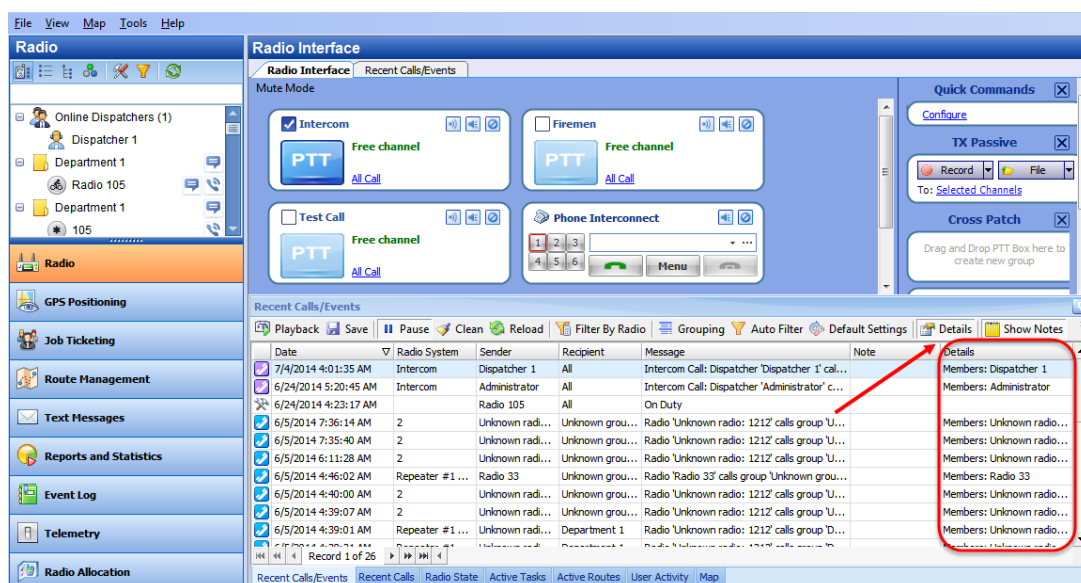
To save a number of recordings as single file select recordings you want to save (use «**Ctrl**» key) click  **Save** button and select **Save Selection as Single File**. Then specify a folder on the local PC to save recordings as single audio file.

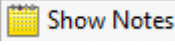

Recent Calls\Events Controls

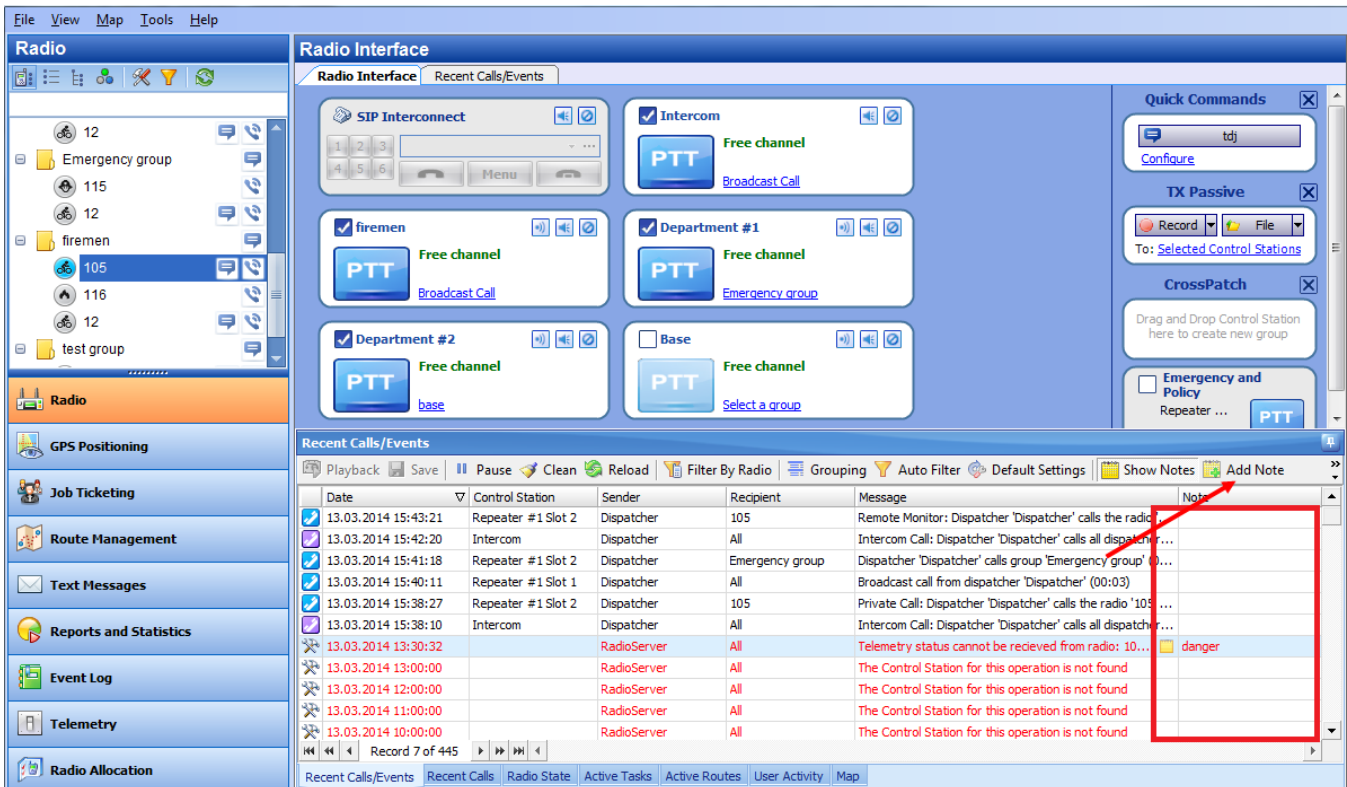
1. Click  button to pause Recent Calls \ Events log updating
2. Click  button to hide Recent Calls\Events log records. Click  button to show all log records.
3. Click  button to filter log records by selected radio. Select radio in the Navigation Tree. Recent Calls and Events for selected radio only will be displayed in the Recent Calls\Events tab.
4. Click  button to group log records. Select column you want to group log records by. Drag and drop selected column header in the Grouping field.
5. Click  button to set filter for recent calls and events. You can filter Recent Calls \ Events by any parameter. E.g. to filter by selected sender select «**Sender**» column (1) and type in sender name (2) to filter the data:



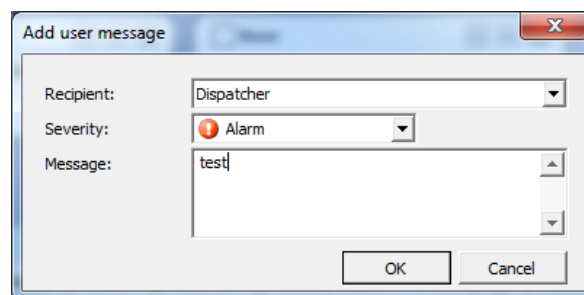
6. Click  button to apply default settings to all log records.
7. Click  button to see talk session members:



8. Click  **Show Notes** button to enable **Note** column. All notes added by Administrator and Dispatchers for recent calls and events are shown in the Notes column. So, you can mark recent calls and events to find it by notes.
9. Click  **Add Note** button to add a note for selected recording and/or event. The note will be displayed in the Recent Calls \ Events log if «**Show Notes**» mode enabled:



10. Click  **Add Message** button to add message for Dispatchers in the Recent Calls \ Events log.

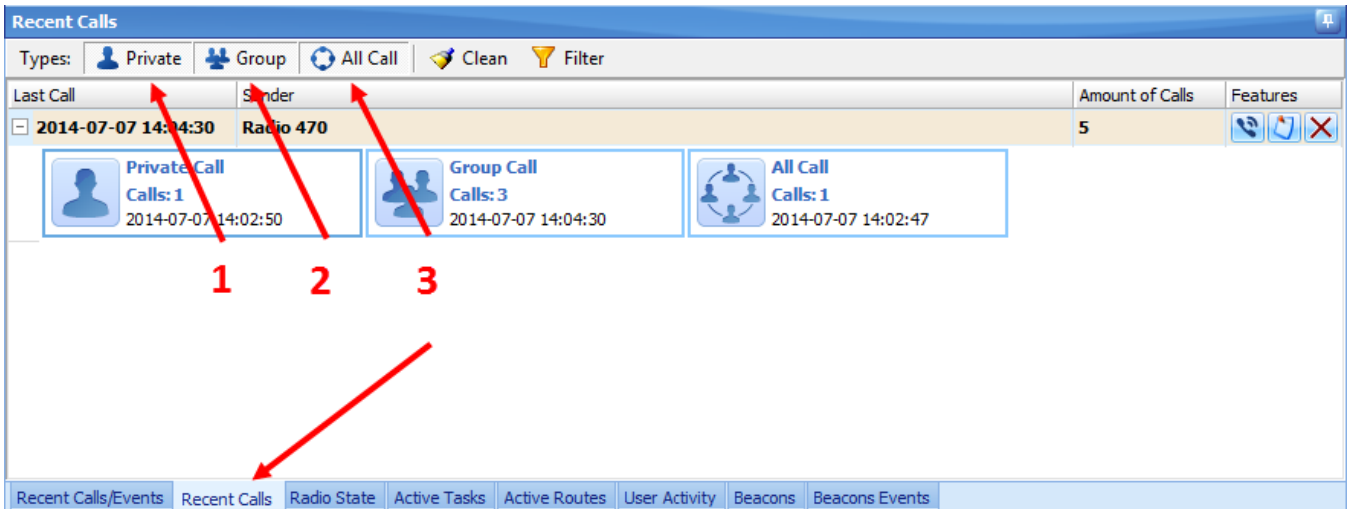


- **Recipient** – select All if you want all Dispatchers to see the message
- **Severity** – select severity level to inform Dispatchers about message severity.

Type in message text. Selected Dispatcher or all Dispatchers registered in the system will see the message in the Recent Calls \ Events tab.

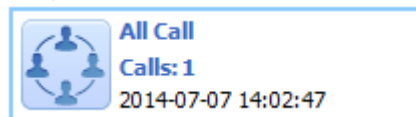
Recent Calls


On the Recent Calls tab Dispatcher can see and configure the latest Voice Calls, including Private, Group and Intercom Calls:





- Click «**Private**» button (1) to display the latest Private Calls;
- Click «**Group**» button (2) to display the latest Group Calls;
- Click «**All Calls**» button (3) to display all call types including Intercom Call.

In the Call Boxes you can see calls number, last call date and time:



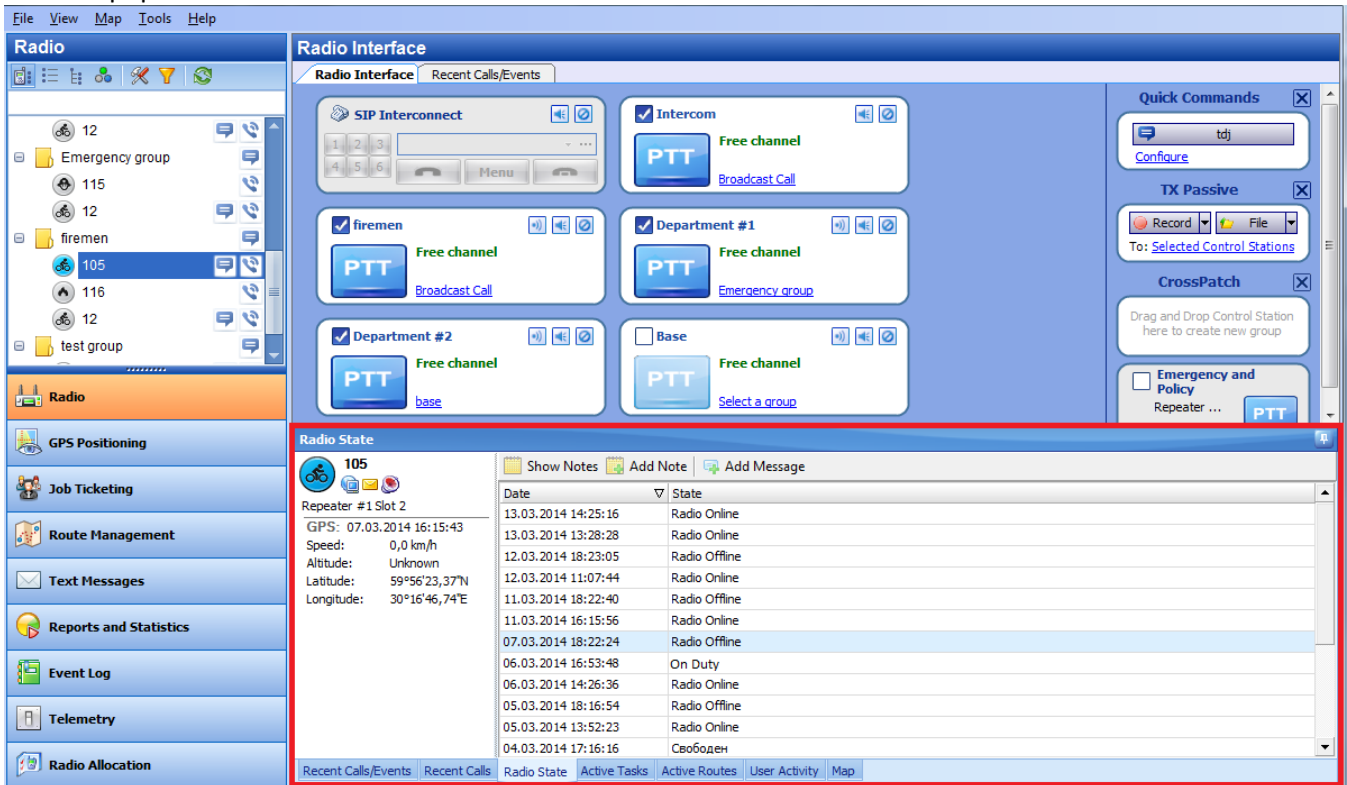
Click  button to start Private call to the Sender-Radio (Radio is displayed in the «Sender» column);

Click  button to mark calls as viewed;

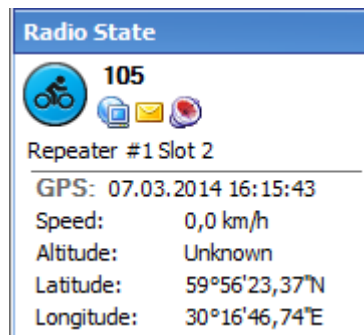
Click  button to clear recent call history.




Radio State

On the **Radio State** tab Dispatcher can see list of selected radio statuses and the last received radio data in the Radio Popup Window:






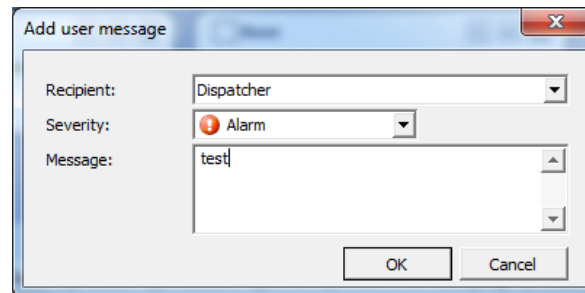
Radio Popup Window:



- Click  button to request the subscriber's presence in the radio network
- Click  button to send a text message to the radio subscriber
- Click  button to request radio subscriber's location

In the Radio State log Dispatcher can do the following:

1. Click  **Show Notes** button to enable **Note** column. All notes added by Administrator and Dispatchers for recent calls and events are shown in the Notes column. So, you can mark recent calls and events to find it by notes.
2. Click  **Add Note** button to add a note for selected recording and/or event. The note will be displayed in Radio State tab if «**Show Notes**» mode enabled.
3. Click  **Add Message** button to add message for Dispatchers in the Radio State tab of dock window.



The dialog box titled "Add user message" contains the following fields:

- Recipient:** A dropdown menu with "Dispatcher" selected.
- Severity:** A dropdown menu with "Alarm" selected, indicated by a red exclamation mark icon.
- Message:** A text area containing the word "test".

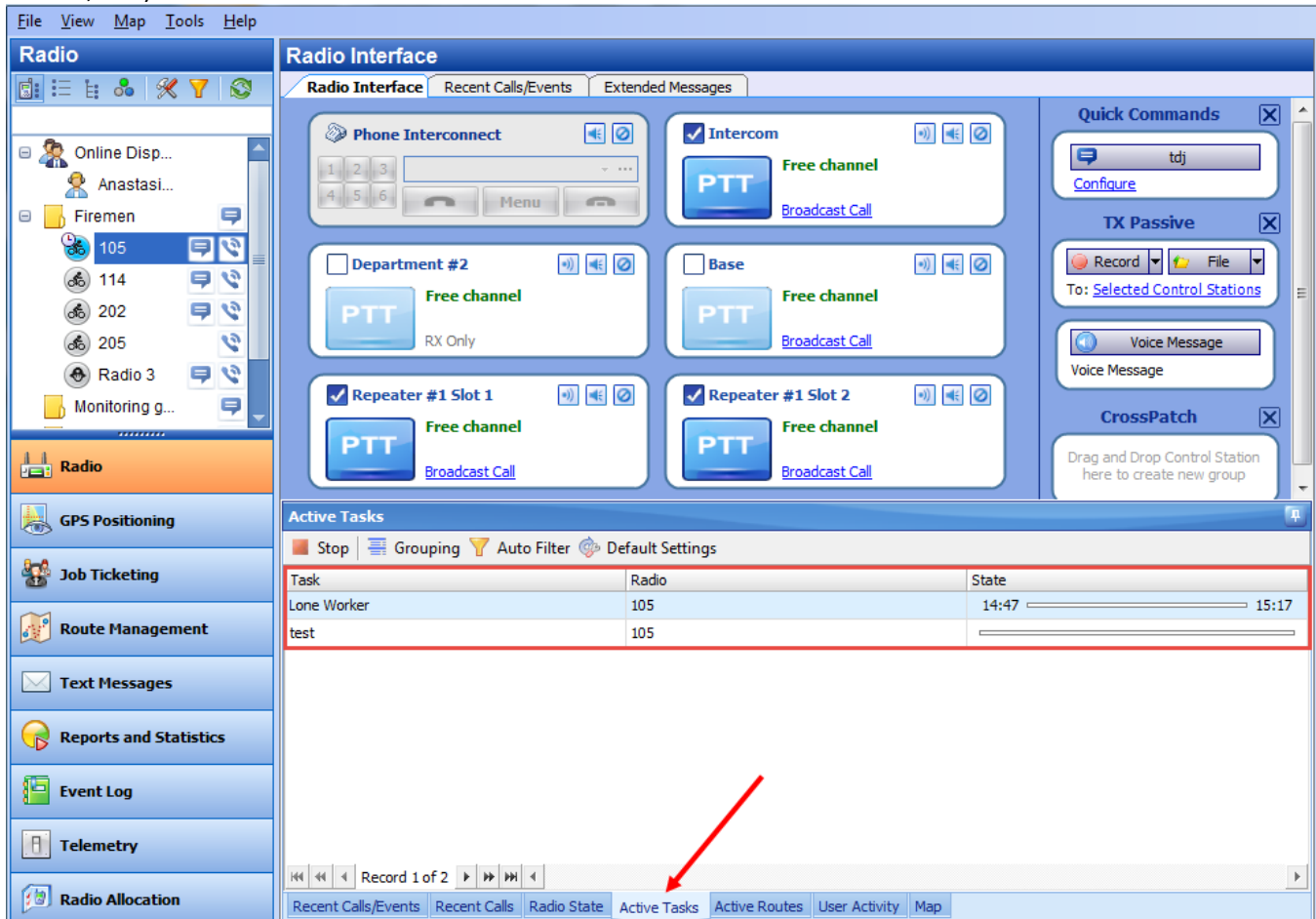
At the bottom right, there are "OK" and "Cancel" buttons.

- **Recipient** – select All if you want all Dispatchers to see the message
- **Severity** – select severity level to inform Dispatchers about message severity.

Type in message text. Selected Dispatcher or all Dispatchers registered in the system will see the message in the Radio State tab.

Active Tasks

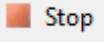
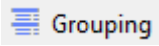
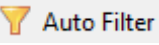
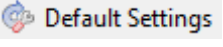
On the Active Tasks tab Dispatcher can monitor all active tasks for selected radio (e.g. Lone Worker, Active Routes, etc.).



Task	Radio	State
Lone Worker	105	14:47 — 15:17
test	105	

For more details on tasks [TRBOnet Administration Guide](#), **Tasks** section.

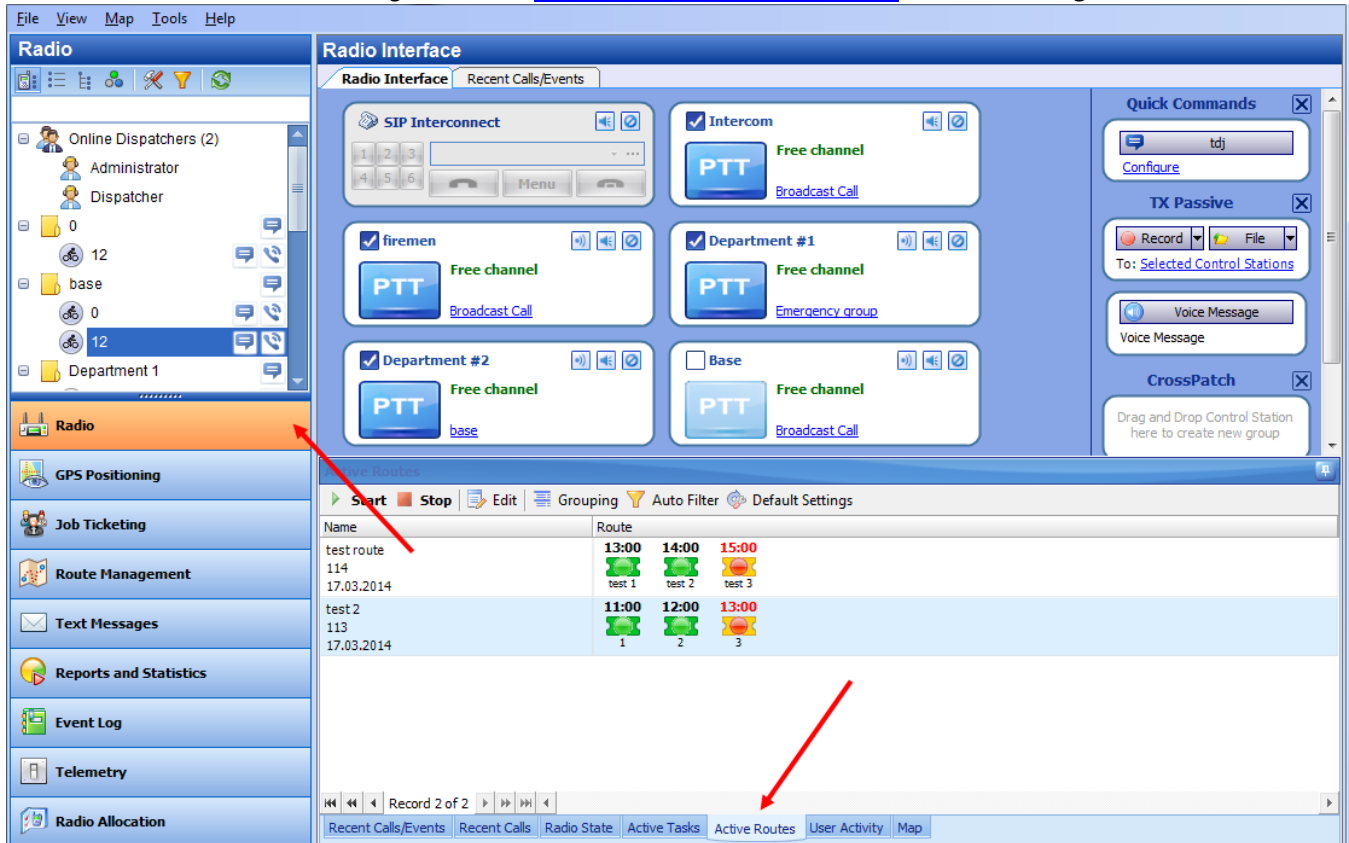
Dispatcher can manage active tasks:

- Click  **Stop** button to stop the task procedure
- Click  **Grouping** button to group tasks. Select column you want to group tasks by. Drag and drop selected column header in the Grouping field.
- Click  **Auto Filter** button to set filter for active tasks. You can filter tasks by any parameter. E.g. to filter by selected radio select «**Radio**» column and type in radio name (2) to filter the data.
- Click  **Default Settings** button to apply default settings to all active tasks.

Active Routes

On the **Active Routs** tab Dispatcher can monitor all routes started by Administrator.

For more details on Route Management see [TRBOnet Administration Guide](#), **Routes Management** section.



Radio Interface

Radio Interface Recent Calls/Events

SIP Interconnect

Intercom ☒ **Free channel** **PTT** **Broadcast Call**

firemen ☒ **Free channel** **PTT** **Broadcast Call**

Department #1 ☒ **Free channel** **PTT** **Emergency group**

Department #2 ☒ **Free channel** **PTT** **base**

Base ☐ **Free channel** **PTT** **Broadcast Call**

Quick Commands

TX Passive

Record **File** **To: Selected Control Stations**

Voice Message

CrossPatch

Drag and Drop Control Station here to create new group

Active Routes

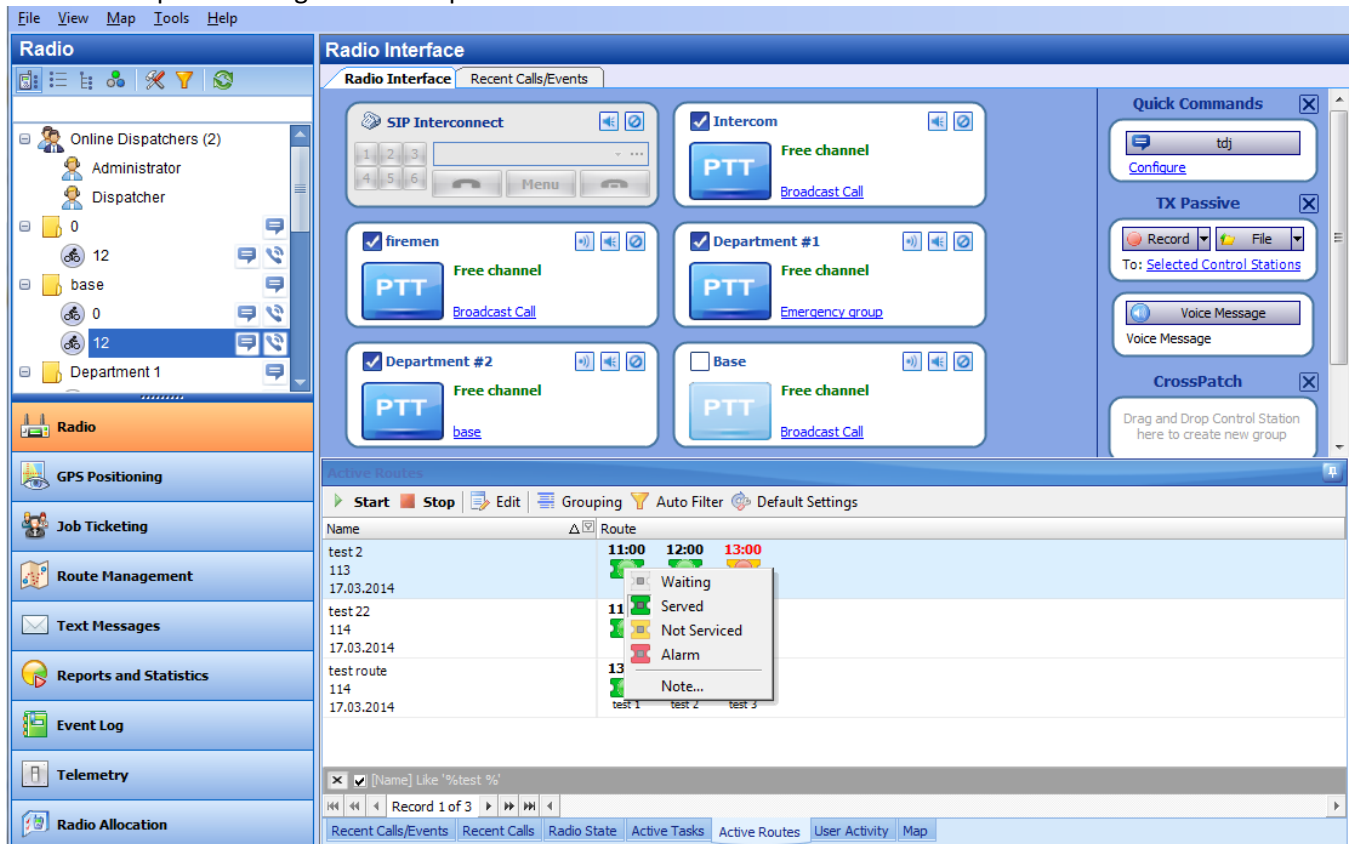
Start **Stop** **Edit** **Grouping** **Auto Filter** **Default Settings**

Name	Route
test route 114 17.03.2014	13:00 test 1 14:00 test 2 15:00 test 3
test 2 113 17.03.2014	11:00 1 12:00 2 13:00 3

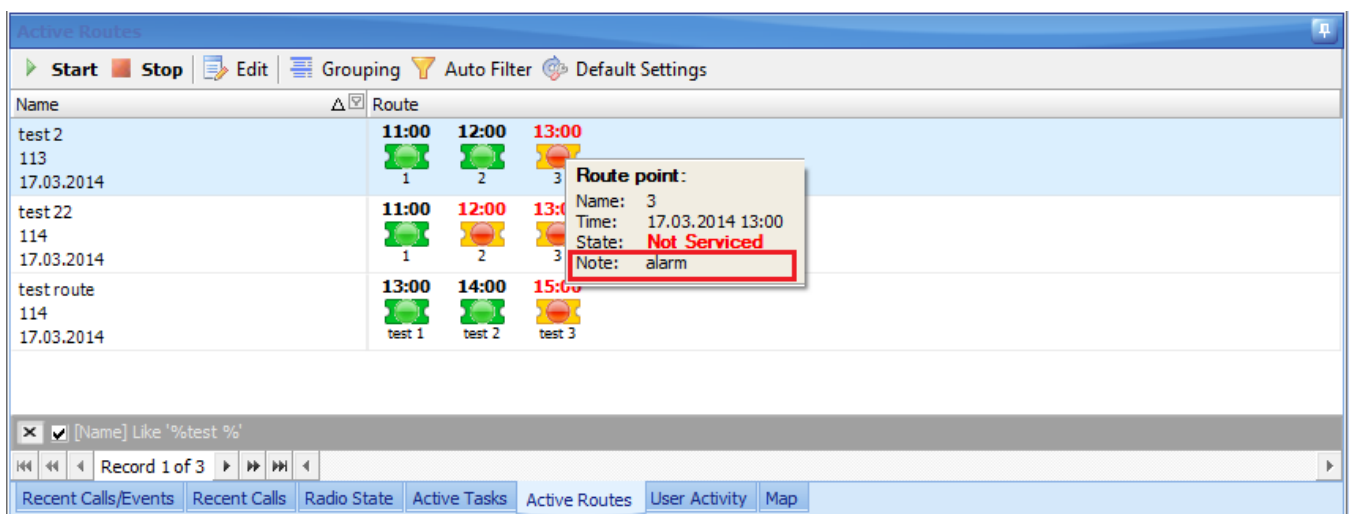
Record 2 of 2

Recent Calls/Events **Recent Calls** **Radio State** **Active Tasks** **Active Routes** **User Activity** **Map**




Dispatcher can mark route points as serviced and add notes for route points.
 Select route point and right-click to open the context menu:

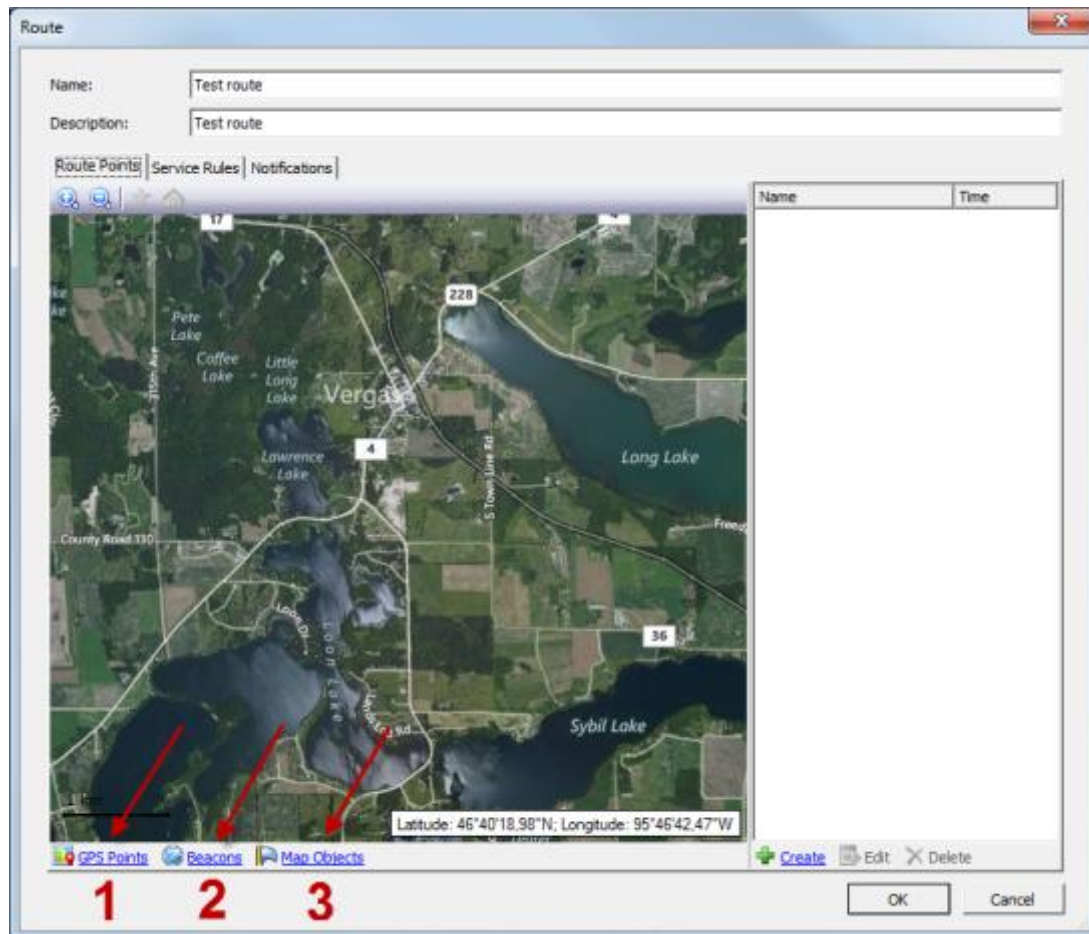


- **Waiting** – service time is not came and the route point is not serviced
- **Served** - the route point is served on time
- **Not Serviced** – the route point was not serviced on time
- **Alarm** – the route point comes in alarm mode according to Service rules settings (see [Route Management](#) section)
- **Note** – click to add a note to selected route point. The note will be displayed in the popup window when Dispatcher put mouse cursor on the route point:



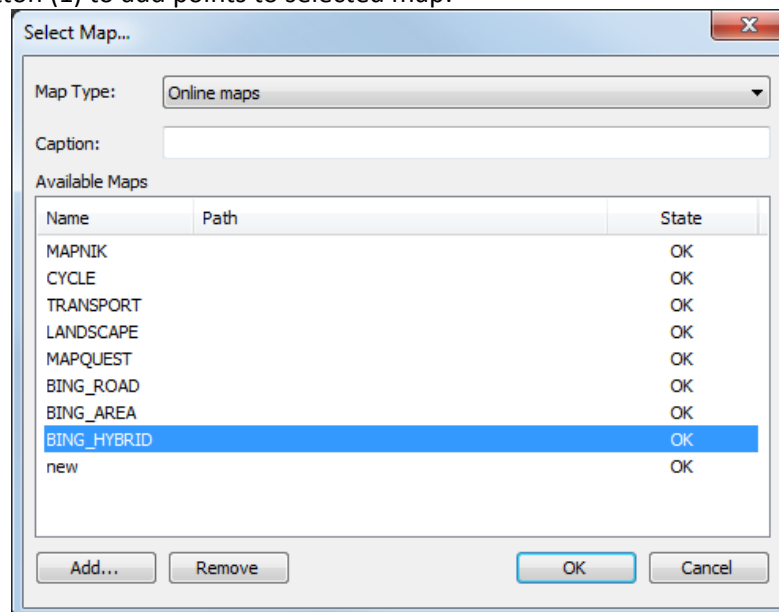
Dispatcher has the following route monitoring options:

1. **Start** – click  **Start** button to start new route based on the created one.
2. **Stop** – click  **Stop** button to stop the route. Finished route will be deleted from Active Routes list.
3. **Edit** – click  **Edit** button to edit an existing route:



- **Name** – specify a name to display in the route list;
- **Description** – add a description for new route.

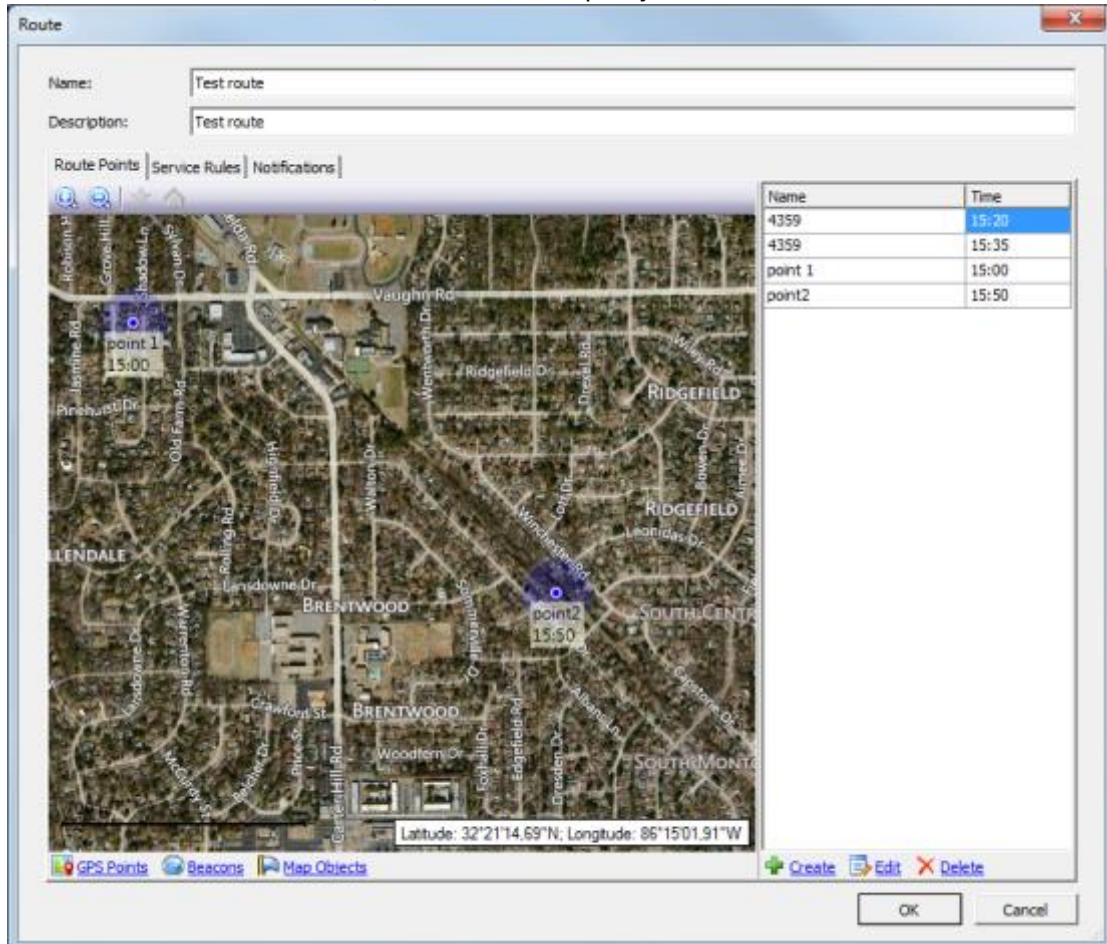
Click «GPS Points» button (1) to add points to selected map:



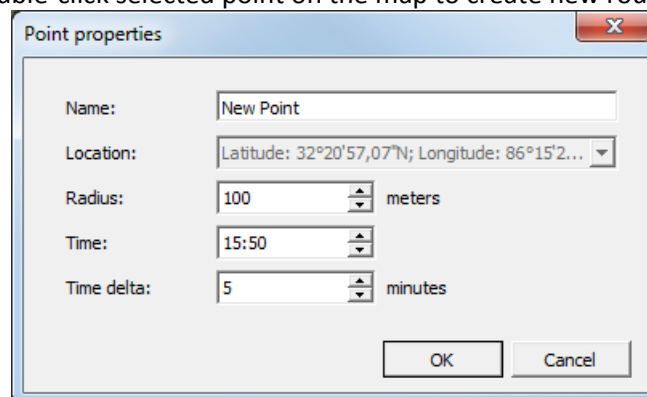
Select map.

For more details on map types see [TRBOnet Administration Guide](#), **Map Types** section.

Go to **Route Points** tab to set GPS Points, Beacons and Map Objects:



Click «**Create**» button or double-click selected point on the map to create new route point:



Point properties

Name:

Location:

Radius: meters

Time:

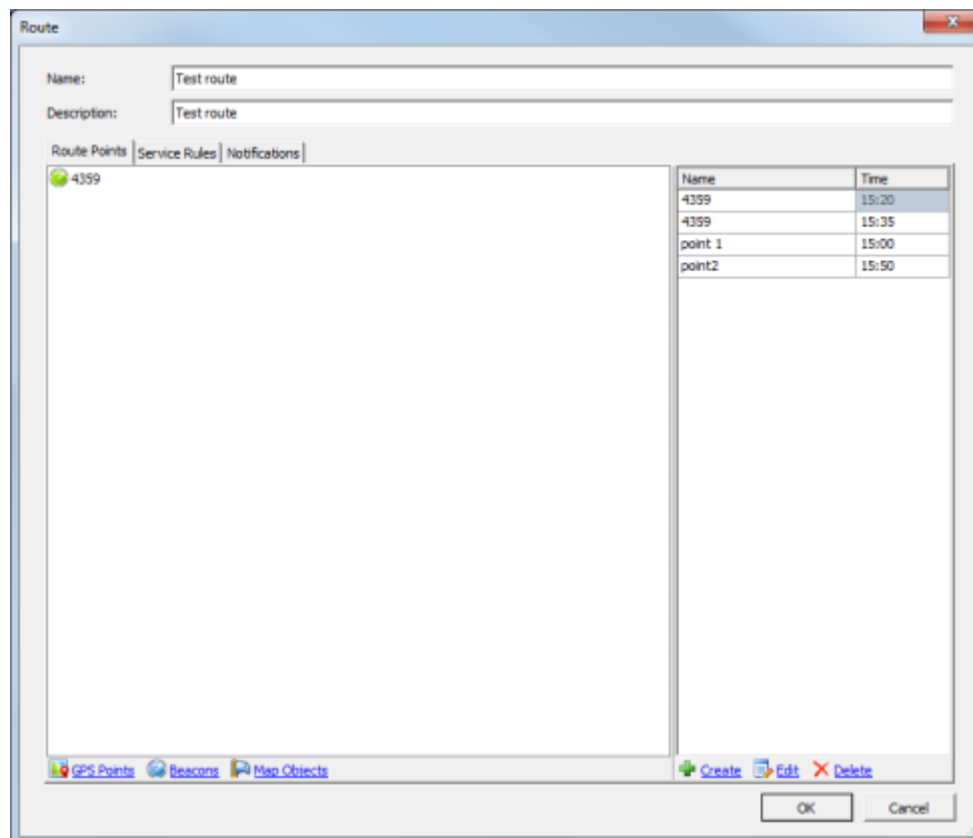
Time delta: minutes

- **Name** – specify a name for new point to display on the map;
- **Location** – in the location field administrator can see current GPS coordinates of new point;
- **Radius** – specify radius to display new point on the map;
- **Time** – specify time to service new point;
- **Time delta** – time inaccuracy to serve selected point.

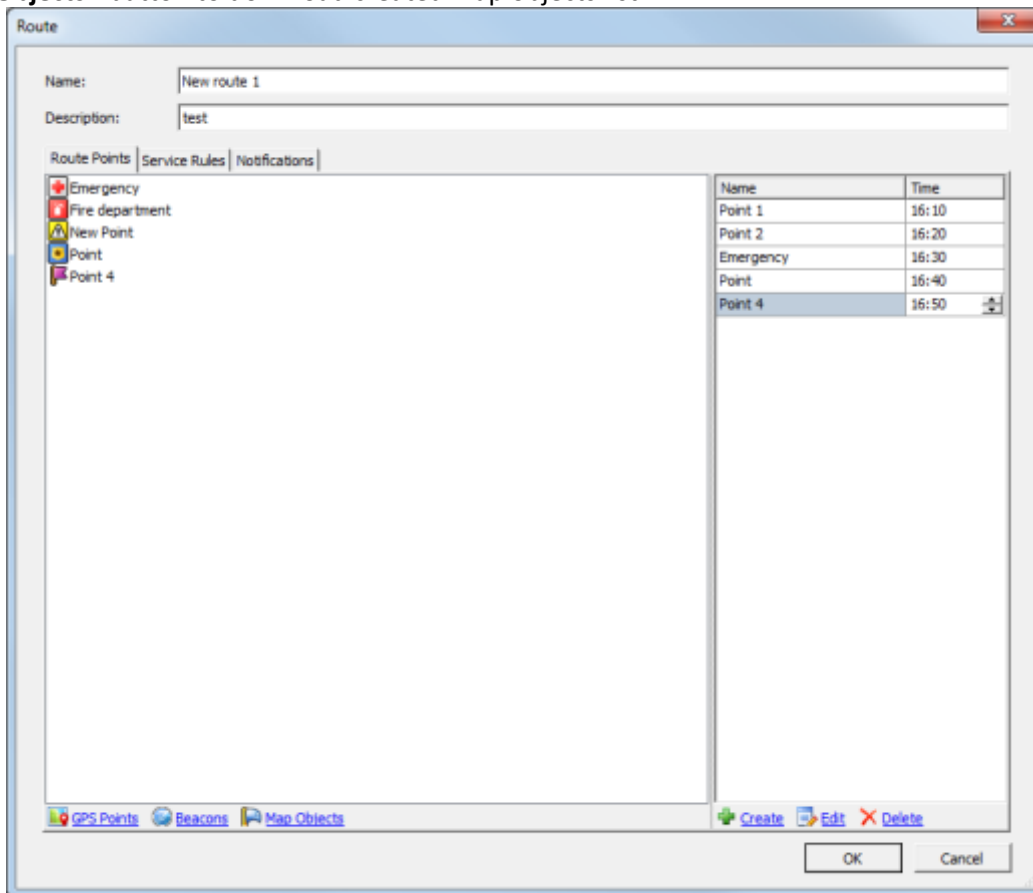
Click «**OK**» to add new point.

Click «**Beacons**» button (2) to add a beacon on the map.

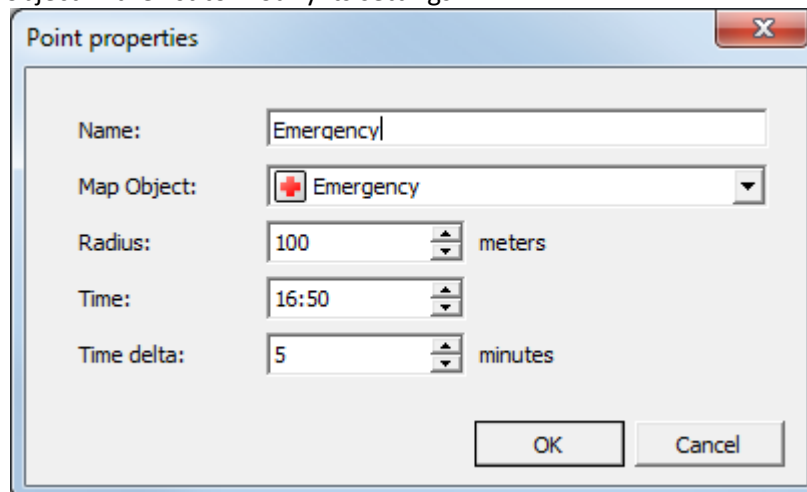
Note: to enable **Indoor** feature make sure your license includes **Indoor Positioning** and **Indoor Service** is selected in the list of available services (see [TRBOnet Administration Guide](#), **Services** section).



Click «**Map Objects**» button to download created map objects list:



Double-click selected object in the list to modify its settings:

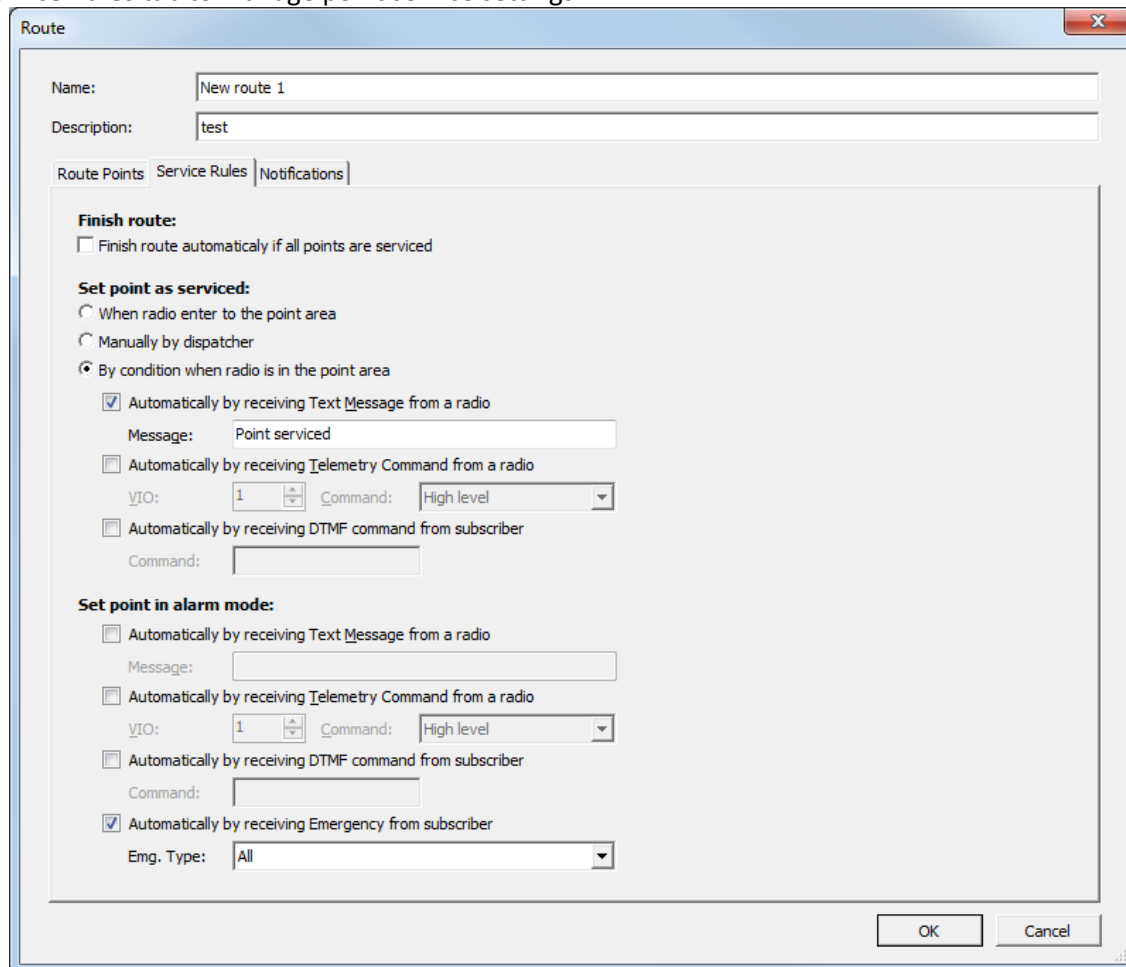


- **Name** – specify a name for the object;
- **Map Object** – select map object icon (type) in the dropdown list;
- **Radius** – specify radius to display the point on the map;
- **Time** – specify time to service the point;
- **Time delta** – time inaccuracy to serve selected point.

Click «OK» to save map object parameters.

All map objects are displayed as points on the map.

Go to **Service Rules** tab to manage point service settings:



Finish route – specify parameters to mark the route as finished:

- **Finish route automatically if all points are serviced** – select to mark the route as finished when all points and objects are serviced.

Set point as serviced – select point service parameters:

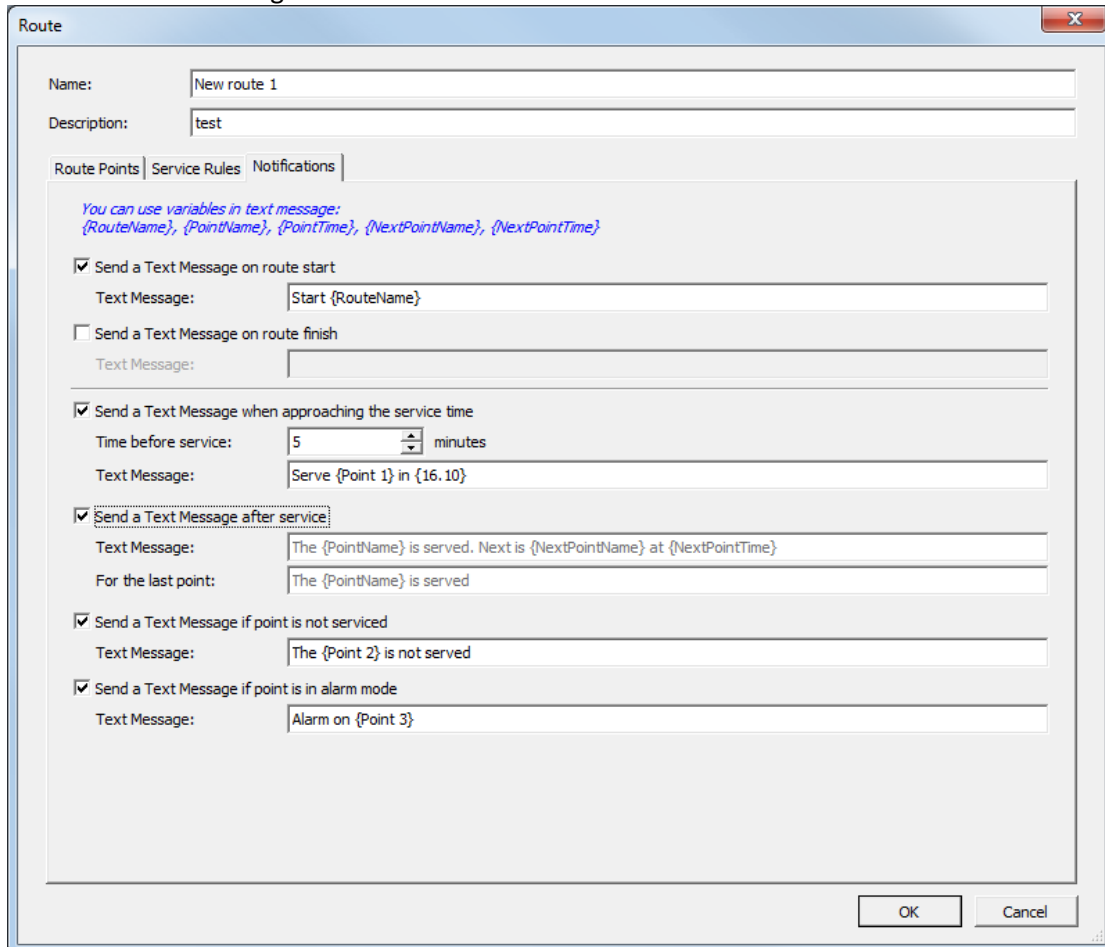
- **When radio enters to the point area** – select to mark point as serviced when radio becomes in the point radius;
- **Manually by dispatcher** – select to allow dispatcher make point as serviced;
- **By condition when radio is in the point area** – specify conditions to mark point as serviced:
 - ✓ **Automatically by receiving Text Message from a radio** - select to mark the point serviced after dispatcher receives text message with specified text from radio subscriber;
 - Message** – specify message text;
 - ✓ **Automatically by receiving Telemetry Command from a radio** - select to mark the point serviced after dispatcher receives specified telemetry command from radio subscriber;
 - VIO** – specify a VIO to send a telemetry command;
 - Command** – specify a command for selected VIO;

- ✓ **Automatically by receiving DTMF command from subscriber** – select to mark the point as serviced after dispatcher receives DTMF command from radio subscriber;
Command – specify a command text.

Set point in alarm mode – select parameters to make the point in alarm mode:

- **Automatically by receiving Text Message from a radio** - select to make the point in alarm mode after dispatcher receives text message with specified text from radio subscriber;
 - ✓ **Message** – specify message text;
- **Automatically by receiving Telemetry Command from a radio** - select to make the point in alarm mode after dispatcher receives specified telemetry command from radio subscriber;
 - ✓ **VIO** – specify a VIO to send a telemetry command;
 - ✓ **Command** – specify a command for selected VIO;
- **Automatically by receiving DTMF command from subscriber** – select to make the point in alarm mode after dispatcher receives DTMF command from radio subscriber;
 - ✓ **Command** – specify a command text;
- **Automatically by receiving Emergency from subscriber** – select to make the point in alarm mode after dispatcher receives Emergency from radio subscriber;
 - ✓ **Emg. Type** – specify an Emergency type in the dropdown list;




Go to **Notifications** tab to manage notifications to radio:



Note: follow the predefined notifications templates. If text is not correct notifications will not be available.

- **Send a Text Message on a route start** – select to inform radio subscriber about route start;
 ✓ **Text Message** – type in text message text to send to radio subscriber;
- **Send a Text Message on a route finish** – select to inform radio subscriber about route finish;
 ✓ **Text Message** – type in text message text to send to radio subscriber;
- **Send a Text Message when approaching the service time** – select to notify radio subscriber about point serve;
 ✓ **Time before service** – specify a time period in minutes before service time to send a text message;
 ✓ **Text Message** – type in text message text to send to radio subscriber;
- **Send a Text Message if point is not serviced** – select to notify radio subscriber if the point is not serviced;
 ✓ **Text Message** – type in text message text to send to radio subscriber;
- **Send a Text Message if point is in alarm mode** - select to notify radio subscriber if the point is in alarm mode;
 ✓ **Text Message** – type in text message text to send to radio subscriber;

Click «OK» to save settings.

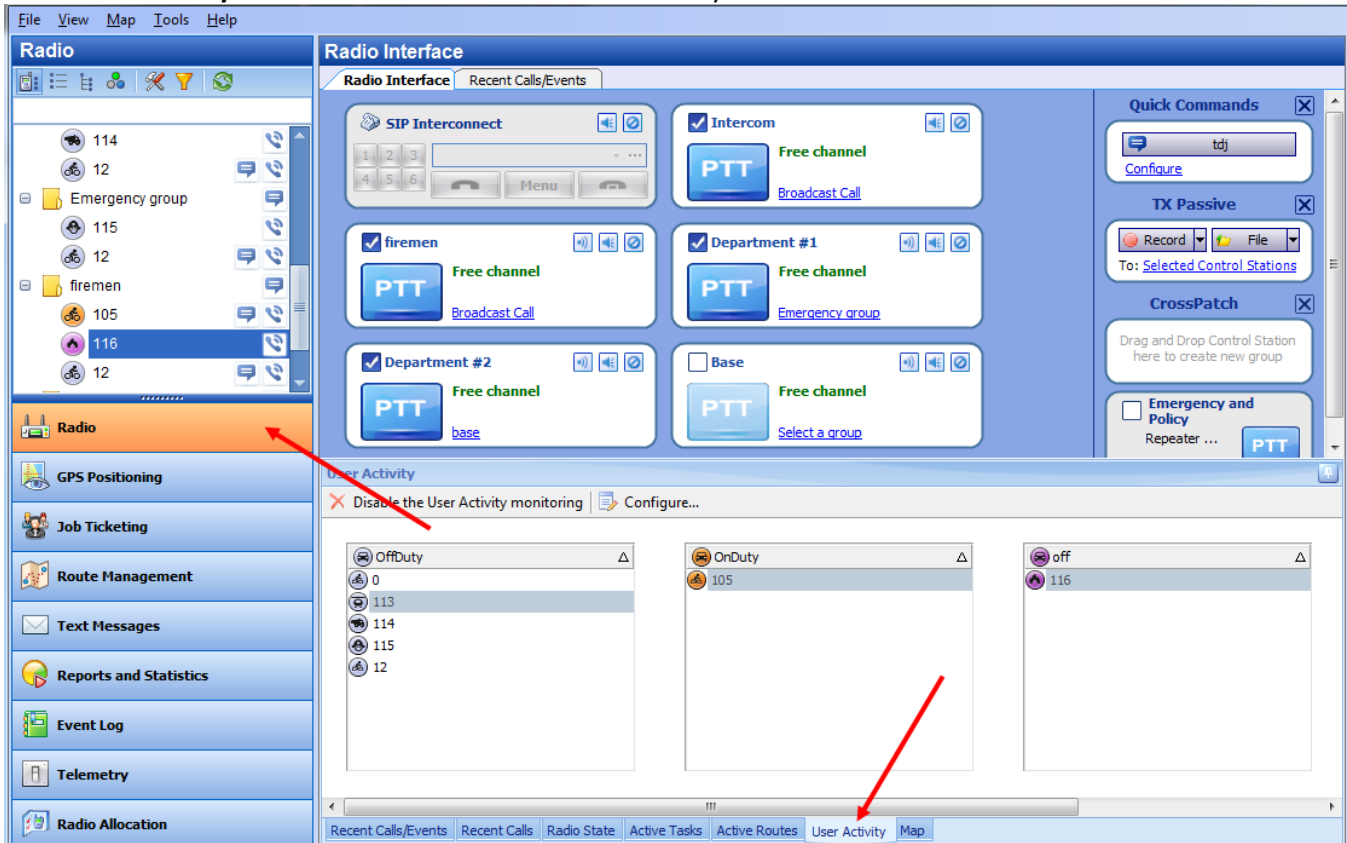
4. **Grouping** – click  **Grouping** button to group routes in the Active Routes list. Select column you want to group log records by. Drag and drop selected column header in the Grouping field.
5. Click  **Auto Filter** button to set filter for active routes. You can filter routes by any parameter. E.g. to filter by selected route name select «**Name**» column (1) and type in route name (2) to filter the data.
6. Click  **Default Settings** button to apply default settings to all routes.

User Activity

The **User Activity** function allows the Dispatcher make lists of subscribers can be assigned to due to their activity.

For example, if a subscriber sends a message «**On duty**» or presses an exact preset telemetry button, this subscriber gets assigned to the «**On duty**» list in the Dispatcher Console. The Dispatcher can also assign subscribers to lists manually.

Go to **User Activity** tab to monitor radio subscribers' activity:

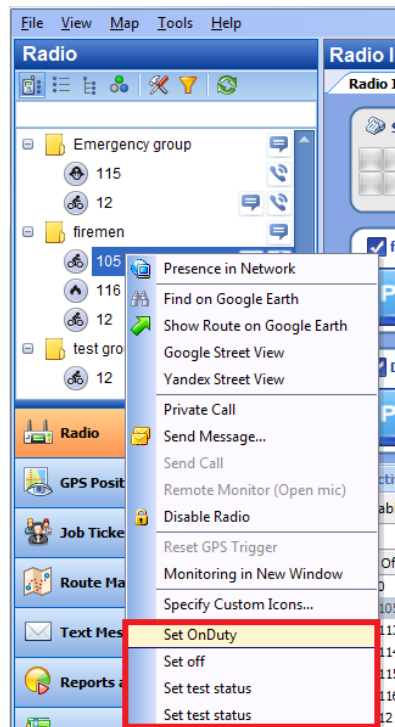


All configured custom statuses for User Activity task are displayed in User Activity tab. Click any space in the tab and scroll your mouse cursor to see all available statuses and radios assigned to the list.

For more details about User Activity task configuration see [TRBOnet Administration Guide](#), **User Activity** section.

Dispatcher can assign any status configured for User Activity task to selected radio:

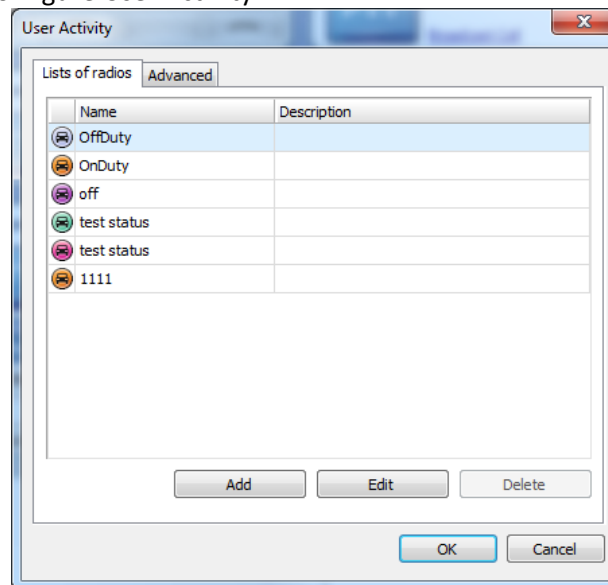
- Select radio in the Navigation Tree
- Right-click to open radio context menu and select status to assign for radio:



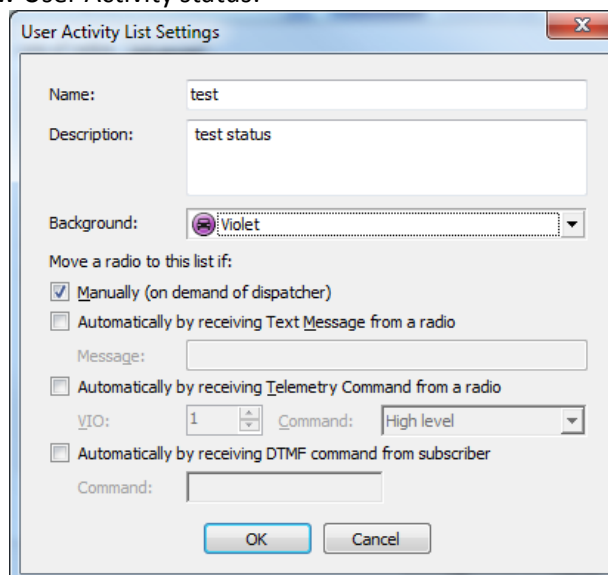
Statuses can be assigned to the radio automatically, according to User Activity task configuration.

For more details on User Activity task configuration see [TRBOnet Administration Guide](#), **User Activity** section.

Dispatcher can manage statuses and time interval to set the default status for online radios.
 Click «**Configure**» button to configure User Activity:



Click «**Add**» button to add new User Activity status:

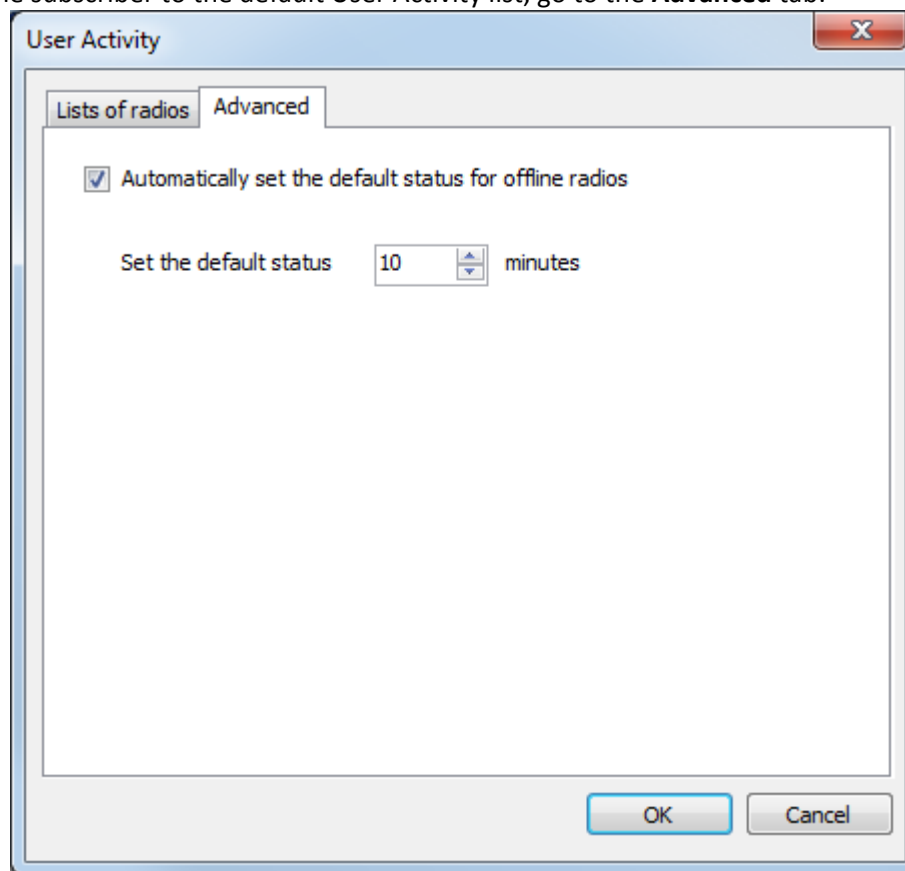


- **Name** – specify a name for new user activity list;
- **Description** – add a description for new user activity list;
- **Background** – select the background color to display the subscribers assigned to the list;

Move a radio to this list if:

- **Manually (on demand of Dispatcher)** – select to assign subscribers to the list manually;
- **Automatically by receiving Text Message from a radio** – select to assign a radio to the list after receiving a message (specify the message text in the **Message** field);
- **Automatically by receiving Telemetry Command from a radio** – select to assign a radio to the list after receiving telemetry. Specify **VIOs** (1 to 5) and the **Command**;
- **Automatically by receiving DTMF command from subscriber** – to assign a radio to the list after receiving a predefined DTMF command (specify the command in the **Command** field).

To assign an offline subscriber to the default User Activity list, go to the **Advanced** tab:

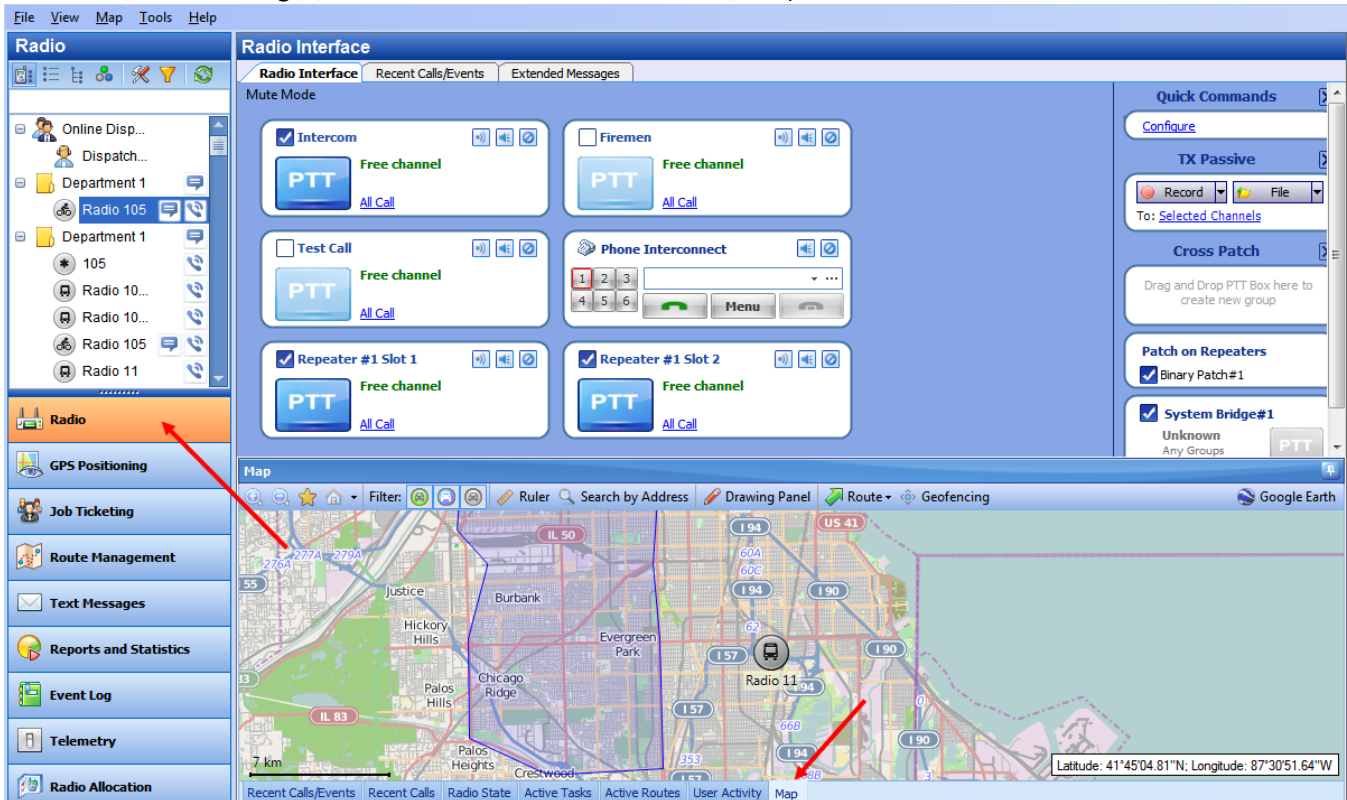


- **Automatically set the default status for offline radios** – select to allow assign the default status for offline radios;
- **Set the default status** – specify time period to set default status to a subscriber.

To disable User Activity task click «**Disable User Activity monitoring**» button.

Map

Go to **Map** page to monitor Radio location on map (all map options e.g. Playback route, search by address, etc. are available for minimized map view on **Map** tab) and perform any available actions in **Radio Interface** (make voice calls, send messages, disable and enable selected radio, etc.):



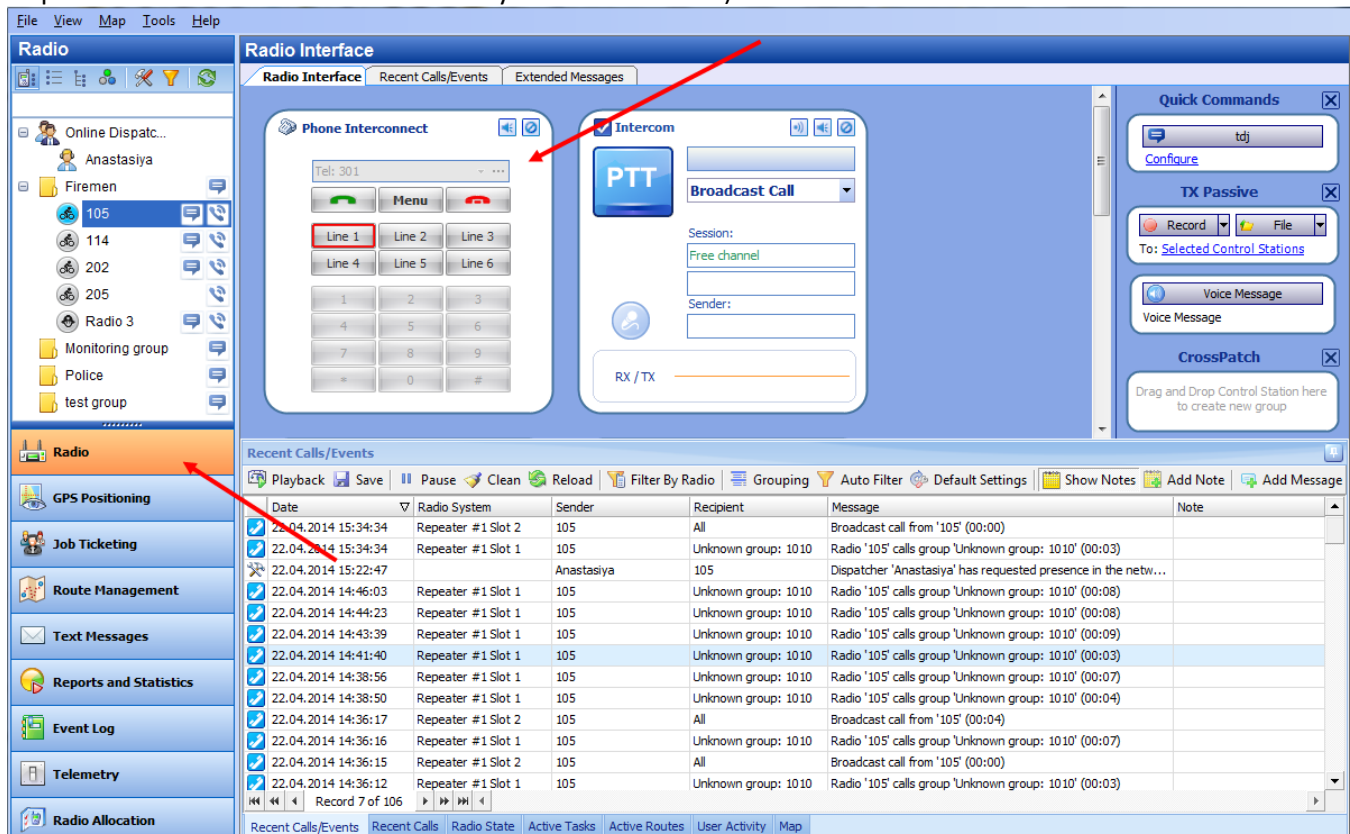
Note: for more details about map options see [GPS Positioning](#) section.

SIP Interconnect (Phone Calls)

The SIP interconnect function allows to make calls from telephones to radios and vice versa. Register SIP account and configure the RadioServer to connect to the account.

For more details on SIP configuration see [TRBOnet Administration Guide](#), **External PBX Server** section.



When making a call, the SIP service connects to the RadioServer. E. g., Dispatcher makes a call to a radio subscriber from the phone. Dispatcher need to dial the SIP account's phone number. After that the SIP service connects to RadioServer and the call is conducted due to RadioServer configuration (the call is forwarded to a dispatcher or the voice menu to connect you to a subscriber).



The screenshot shows the TRBOnet Radio Interface. On the left is a sidebar with various functions like 'Radio', 'GPS Positioning', 'Job Ticketing', etc. The main area is divided into 'Radio Interface' (with sub-tabs for 'Radio Interface', 'Recent Calls/Events', and 'Extended Messages') and 'Quick Commands'. The 'Radio Interface' tab is active, showing a 'Phone Interconnect' panel with a telephone keypad and a 'PTT' (Push-to-Talk) panel. A red arrow points to the 'Tel: 301' field in the Phone Interconnect panel. Below these panels is a 'Recent Calls/Events' table. A second red arrow points to the 'Radio' button in the left sidebar.


Date	Radio System	Sender	Recipient	Message	Note
22.04.2014 15:34:34	Repeater #1 Slot 2	105	All	Broadcast call from '105' (00:00)	
22.04.2014 15:34:34	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:03)	
22.04.2014 15:22:47		Anastasiya	105	Dispatcher 'Anastasiya' has requested presence in the netw...	
22.04.2014 14:46:03	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:08)	
22.04.2014 14:44:23	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:08)	
22.04.2014 14:43:39	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:09)	
22.04.2014 14:41:40	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:03)	
22.04.2014 14:38:56	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:07)	
22.04.2014 14:38:50	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:04)	
22.04.2014 14:36:17	Repeater #1 Slot 2	105	All	Broadcast call from '105' (00:04)	
22.04.2014 14:36:16	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:07)	
22.04.2014 14:36:15	Repeater #1 Slot 2	105	All	Broadcast call from '105' (00:00)	
22.04.2014 14:36:12	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:03)	

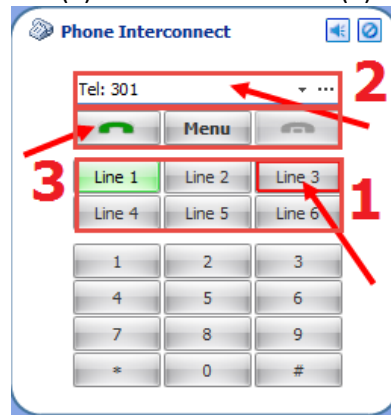
For Phone Interconnect box the following options are available:

- Click  (Solo) button to mute all channels except for this one.
 - Click  (Mute) button to mute this channel.
- To register a SIP account, go to a SIP provider's website (for example, sipgate.co.uk or sipgate.com) and follow the prompts.
 - To configure SIP Interconnect use a virtual SIP Server for making phone calls inside a local network.
 - The Virtual SIP Server supports up to 6 telephone lines.
 - For more details on Virtual SIP Server Configuration see [Configuring Virtual SIP Server Guide](#).
 - For more details on Virtual SIP Server Configuration with a hardware phone or SIP account see [TRBOnet Administration Guide](#).

Phone Call from the Dispatcher Console

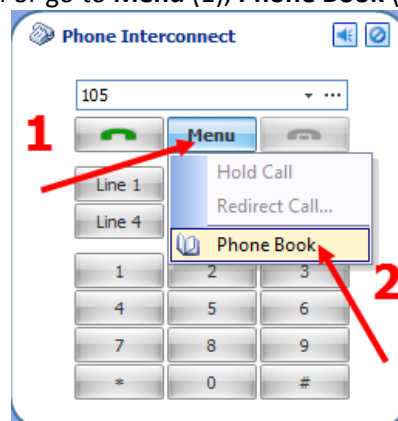
To make a phone call from the Dispatcher Console use the SIP Interconnect pane

Select the line (1), enter the phone number (2) and click  (3) button:

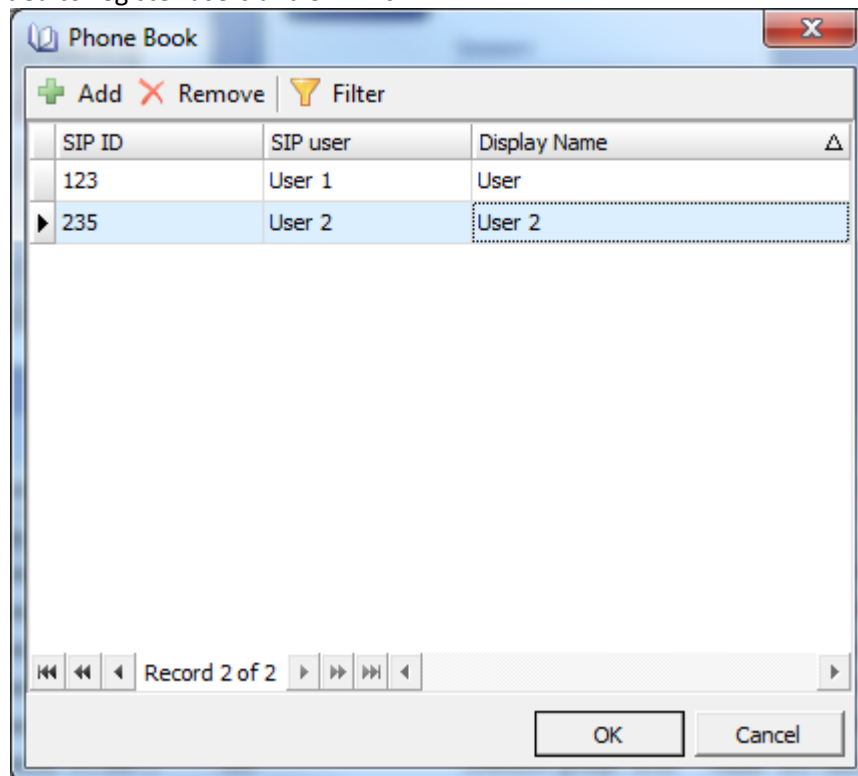


Dispatcher can use phone numbers from Phone Book.

To open a phone book click button or go to **Menu (1), Phone Book (2)**:



Phone Book is intended to register users and SIP ID's:




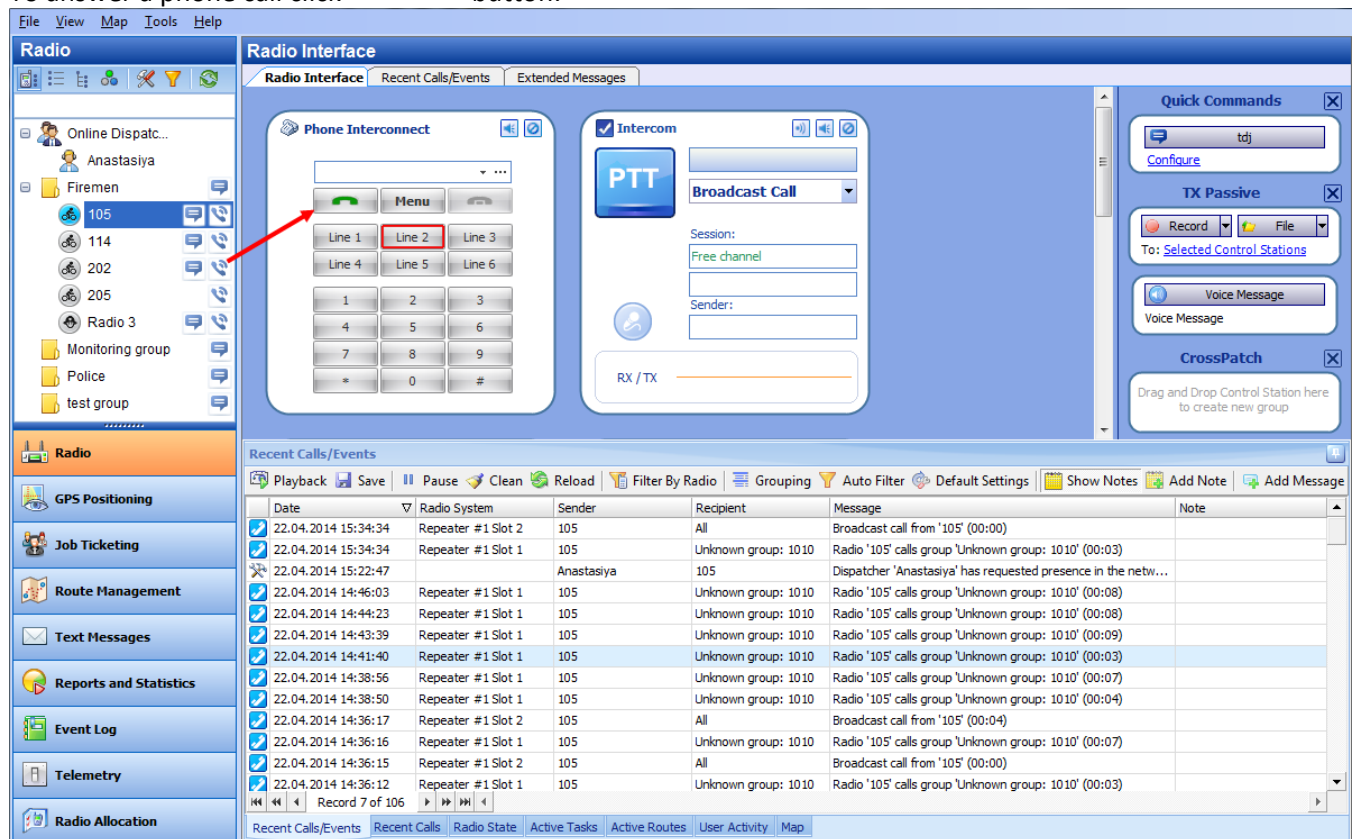
Click «**Add**» button to set a new user authorization.

- **SIP ID** – type in your SIP ID afforded by provider to make incoming phone call;
- **SIP User** – type in SIP User name mentioned when logon;
- **Display Name** – type in User Name to display in Dispatch Console;

Click «**OK**» to add new user in the phone book.

Receive a Phone Call

To answer a phone call click  button:



Radio Interface

Phone Interconnect

Menu

Line 1 Line 2 Line 3
 Line 4 Line 5 Line 6

1 2 3
 4 5 6
 7 8 9
 * 0 #

Intercom

PTT

Broadcast Call

Session:
 Free channel

Sender:

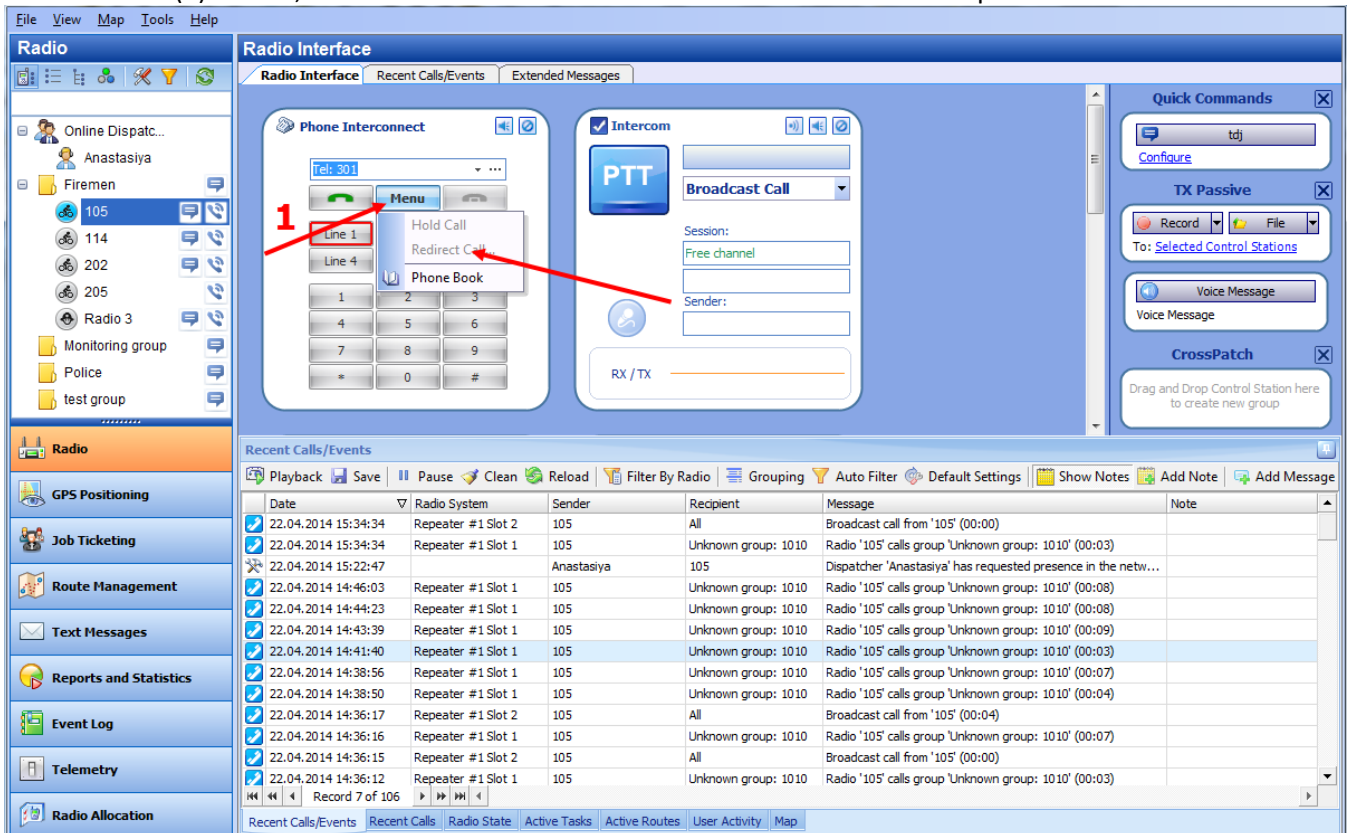
RX / TX

Recent Calls/Events

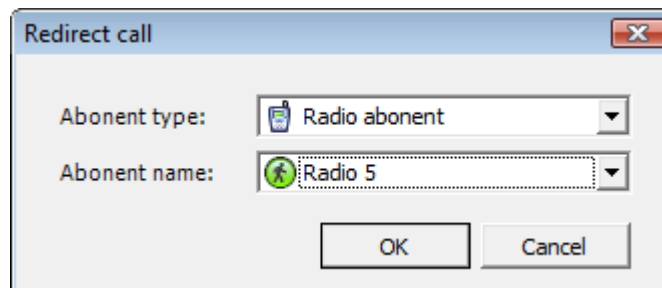
Date	Radio System	Sender	Recipient	Message	Note
22.04.2014 15:34:34	Repeater #1 Slot 2	105	All	Broadcast call from '105' (00:00)	
22.04.2014 15:34:34	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:03)	
22.04.2014 15:22:47		Anastasiya	105	Dispatcher 'Anastasiya' has requested presence in the netw...	
22.04.2014 14:46:03	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:08)	
22.04.2014 14:44:23	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:08)	
22.04.2014 14:43:39	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:09)	
22.04.2014 14:41:40	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:03)	
22.04.2014 14:38:56	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:07)	
22.04.2014 14:38:50	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:04)	
22.04.2014 14:36:17	Repeater #1 Slot 2	105	All	Broadcast call from '105' (00:04)	
22.04.2014 14:36:16	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:07)	
22.04.2014 14:36:15	Repeater #1 Slot 2	105	All	Broadcast call from '105' (00:00)	
22.04.2014 14:36:12	Repeater #1 Slot 1	105	Unknown group: 1010	Radio '105' calls group 'Unknown group: 1010' (00:03)	

Redirect Phone Call to a Subscriber Radio

Click «Menu» (1) button, then select **Redirect Call** and select the subscriber or dispatcher to redirect the call to.



Redirect Call icon appears:



- **Abonent type** – select radio subscriber or dispatcher to redirect the call^
- **Abonent name** – select radio in the dropdown list.

Click «OK» to redirect the call to a selected radio subscriber.

Make a Call Phone to Radio

To make a phone call to a subscriber radio, dial the SIP account's phone number.



Follow the voice menu's prompts or ask the dispatcher to redirect your call to the subscriber.

Make a DTMF Call

Note: Only 1.07.02 and higher firmware version for all radios equipped with dialing keyboard support DTMF.

To make a DTMF call, do the following:

- Press PTT on a portable radio and hold it.
- While holding PTT, dial the phone number and press # (For example: 0079521112233#).
- Release PTT. The RadioServer will automatically initiate a phone call.

Call by Sending Text Message to the Base

To make a call to a phone number send to the TRBOnet Server a text message with the text «PrefixN» where:

- **Prefix** – is a short text to define special text message (e.g. **sip:**)
- **N** - the phone number.

For example, to initiate a call to a phone subscriber “123 456 7890” the following text message should be sent to TRBOnet Server Radio ID: “sip:1234567890”.

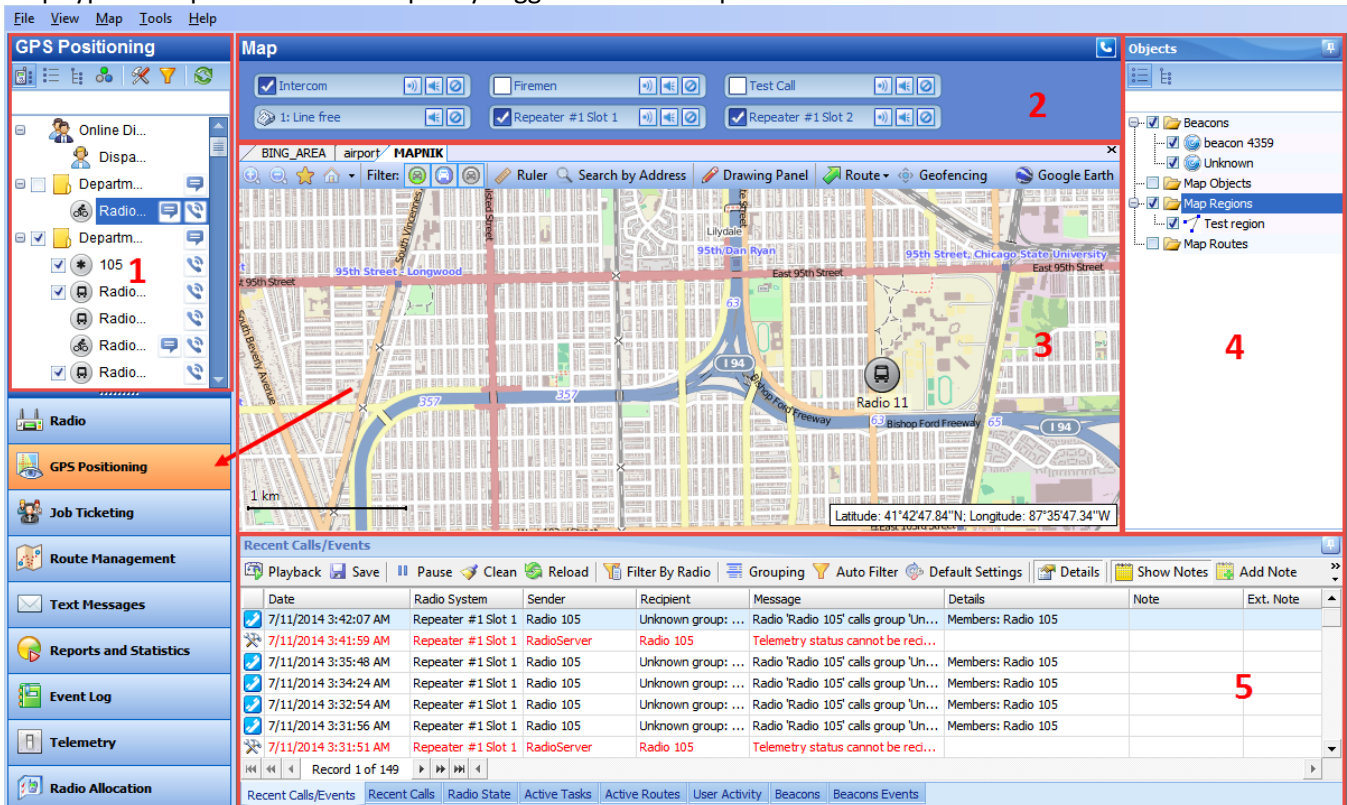
Note: For more details on Text Messages see [Text Messages](#) section.

To Terminate a Call

To terminate the call press **PTT** and then press **#** twice on the subscriber radio.

GPS Positioning

On **GPS Positioning** tab Dispatcher can monitor selected subscriber location on supported maps, open different map types in separated tabs and quickly toggle between map tabs:



The screenshot shows the TRBOnet GPS Positioning interface. The left sidebar contains a navigation tree (1) with options like Online Di..., Dispa..., Departm..., Radio..., and Job Ticketing. The top calls pane (2) displays call types such as Intercom, Firemen, Test Call, and Repeater #1 Slot 1. The central map area (3) shows a street map with a red line indicating a route. The right map objects pane (4) lists objects like Beacons, beacon 4359, Unknown, Map Objects, Map Regions, Test region, and Map Routes. The bottom dock window (5) displays a table of recent calls and events.

Date	Radio System	Sender	Recipient	Message	Details	Note	Ext. Note
7/11/2014 3:42:07 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:41:59 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be redi...			
7/11/2014 3:35:48 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:34:24 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:32:54 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:56 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:51 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be redi...			

1 – **Navigation Tree**. Displays Subscribers, Radio and Logical Groups.

2 – **Calls Pane**. Displays all available call types.

3 – **Map**. Allows radio subscribers and routes monitoring on map.

4 – **Map objects pane**. Displays connected beacons, manually created map objects, map regions and map routes.

5 – **Dock Window**. Displays the following dispatcher actions:

- Monitor and listen to recent calls and view RadioServer events
- Monitor selected radio state
- Monitor active tasks for selected radio
- Monitor active routes for selected radio
- Enable and disable User Activity monitoring
- Monitor beacons and beacons events.

Objects

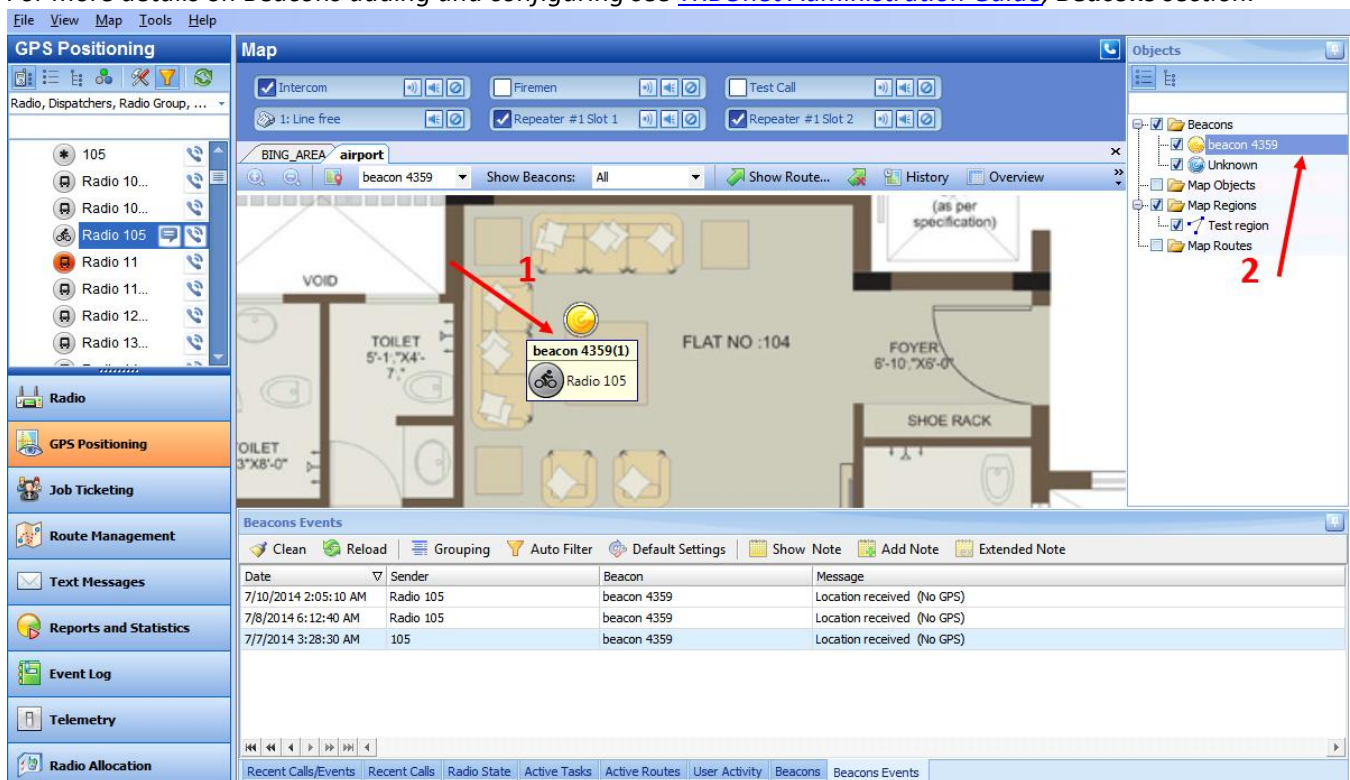
On Map objects section Dispatcher can view and enable/disable the following objects:

- **Beacons** – all connected beacons in the system
- **Map Objects** – all manually created map objects and predefined objects created with Map Drawing Toolbar
- **Map Regions** – all map regions created with Map Drawing Toolbar (use Add Polygon tool to create a map region)
- **Map Routes** – all map routes created with Map Drawing Toolbar (use Draw Route tool to create a map route).

Beacons

TRBOnet Dispatch Software provides the **Indoor Positioning** feature to monitor radio location inside building, where no GPS signal is available. The feature requires additional hardware (beacons spread around the building and option boards in radios). A subscriber will be displayed on indoor floor plan on exact beacon when the radio comes to the beacon's coverage area. The beacon icon on map notifies on the amount of radios that are currently in this beacon's coverage area (e.g. Room 1(3) - there are 3 radios in Room 1).

For more details on Beacons adding and configuring see [TRBOnet Administration Guide](#), **Beacons** section.



The screenshot displays the TRBOnet Dispatch Software interface. On the left is a sidebar with navigation options: GPS Positioning, Radio, Job Ticketing, Route Management, Text Messages, Reports and Statistics, Event Log, Telemetry, and Radio Allocation. The main window is divided into several sections:

- Map:** Shows a building floor plan for 'FLAT NO :104'. A red arrow labeled '1' points to a beacon icon labeled 'beacon 4359(1)' which is associated with 'Radio 105'. The map includes labels for 'TOILET 5'-1"X4'-7"', 'VOID', 'FOYER 6'-10"X5'-0"', and 'SHOE RACK'.
- Objects:** A tree view on the right side of the map showing a hierarchy: Beacons (expanded), beacon 4359, Unknown, Map Objects, Map Regions, Test region, and Map Routes. A red arrow labeled '2' points to the 'beacon 4359' item.
- Beacons Events:** A table at the bottom showing event logs. It has columns for Date, Sender, Beacon, and Message.

Date	Sender	Beacon	Message
7/10/2014 2:05:10 AM	Radio 105	beacon 4359	Location received (No GPS)
7/8/2014 6:12:40 AM	Radio 105	beacon 4359	Location received (No GPS)
7/7/2014 3:28:30 AM	105	beacon 4359	Location received (No GPS)


Beacons are displayed on the building floor plan (1) and in the beacons list (2).


Floor Plan Displaying Controls

Floor Plan Displaying Controls can be found in the upper part of the floor plan:






1 - Zoom in/out

Click  button to zoom in a map.

Click  button to zoom out a map.

2 – Set Location

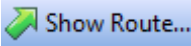
Click  button to set beacons location manually.

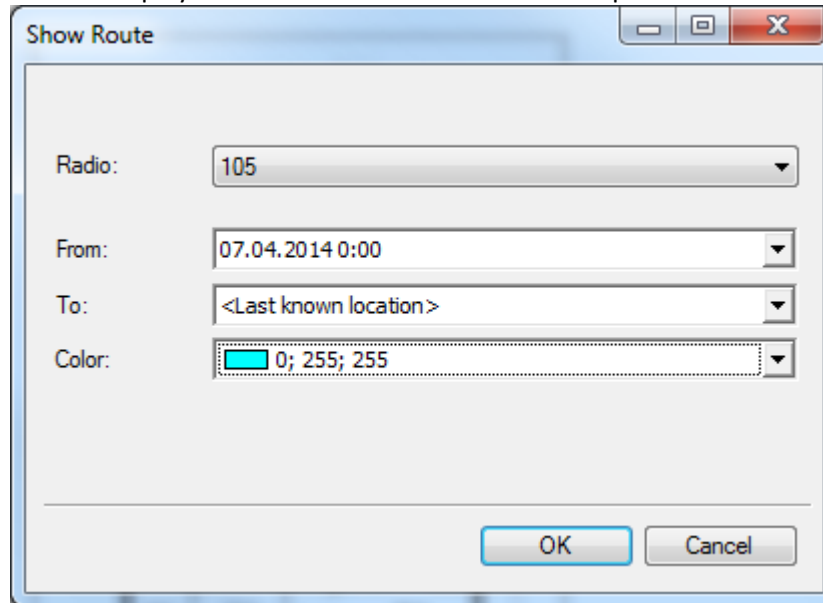
3 – **Available beacons** dropdown list. Select beacon in the list and then click  to set location manually for a selected beacon. If you are going to add a new beacon, select New Beacon in the dropdown list and click  to add new beacon on map.

4 – **Show Beacons**. Dispatcher can select beacon type to display on map.

- **All** – all beacons are displayed on map
- **With Radios** – beacons with attached radios are displayed on map
- **Without Radios** – beacons without radios are displayed on map
- **No** – all beacons are hidden on map

5 – Show Route.

Click  button to display radio's route for the selected time period:



The 'Show Route' dialog box contains the following fields:

- Radio:** A dropdown menu with '105' selected.
- From:** A date and time field with '07.04.2014 0:00' selected.
- To:** A dropdown menu with '<Last known location>' selected.
- Color:** A color selection field with '0; 255; 255' (cyan) selected.

At the bottom right, there are 'OK' and 'Cancel' buttons.

- **Radio** – Select radio to display the route
- **From/To** – Select time period to show radio's route
- **Color** – Select color to display the route.

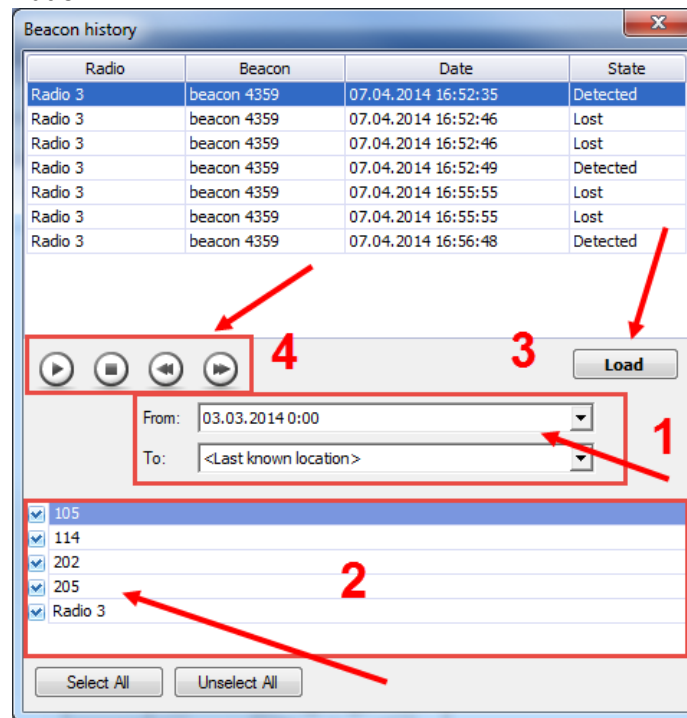
Click «**OK**» to show selected radio route.

6 – Clear Route.

Click to hide all routes on map.

7 – History.

Click to load beacons' information:



1 – Select time period to request the data

2 – Select radios to request the data for. Click «**Select All**» to display history for all radios registered in the system. Click «**Unselect All**» to cancel radios selection.

3 – Click «**Load**» to load the history.

4 – Use these buttons to manage the history (to play, stop or skip beacons events).

The history is displayed in the upper part of the window.

8 – Overview.

Click to see the whole floor plan.

9 – Select map.

Click to change the map.

For more details on map types see [Map Types](#) section.

Map Objects

Dispatcher can create custom and predefined map objects using [Drawing](#). Dispatcher can attach 2D or 3D floor plans for Indoor Positioning.

For more details on map objects creation see [Drawing](#) section.

Map Regions

Dispatcher can create map regions used for geofencing rules. Map Regions can be created manually on map (click any point on map to select it as region border) or Dispatcher can add map points by GPS coordinates to create a region.

For more details on map regions creation see [Drawing](#) section.

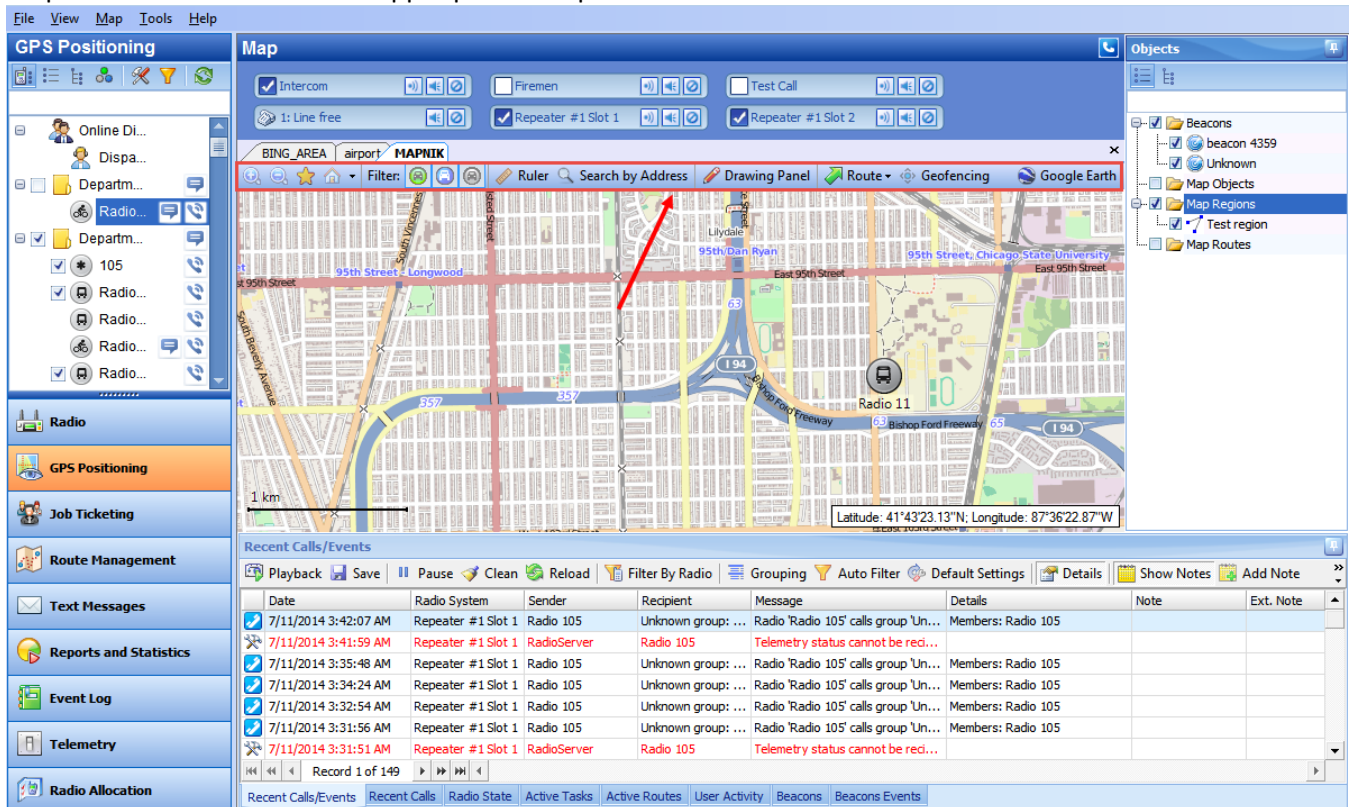
Map Routes

Dispatcher can create routes on map used for geofencing rules.


For more details on map routes creation see [Drawing](#) section.


Map Tools

Map Tools can be found in the upper part of map:



Zoom in/out

Click  button to zoom in a map.


Click  button to zoom out a map.

Bookmarks

Click  button to open Bookmarks panel.




Select «**Save as a bookmark**» to save map region. Dispatcher can create any numbers of bookmarks. To open the bookmark, select its title in the list.

Default region

Click  button to select default region. Dispatcher can save only one default region. To open the default region select «**Show default region**».


Filter

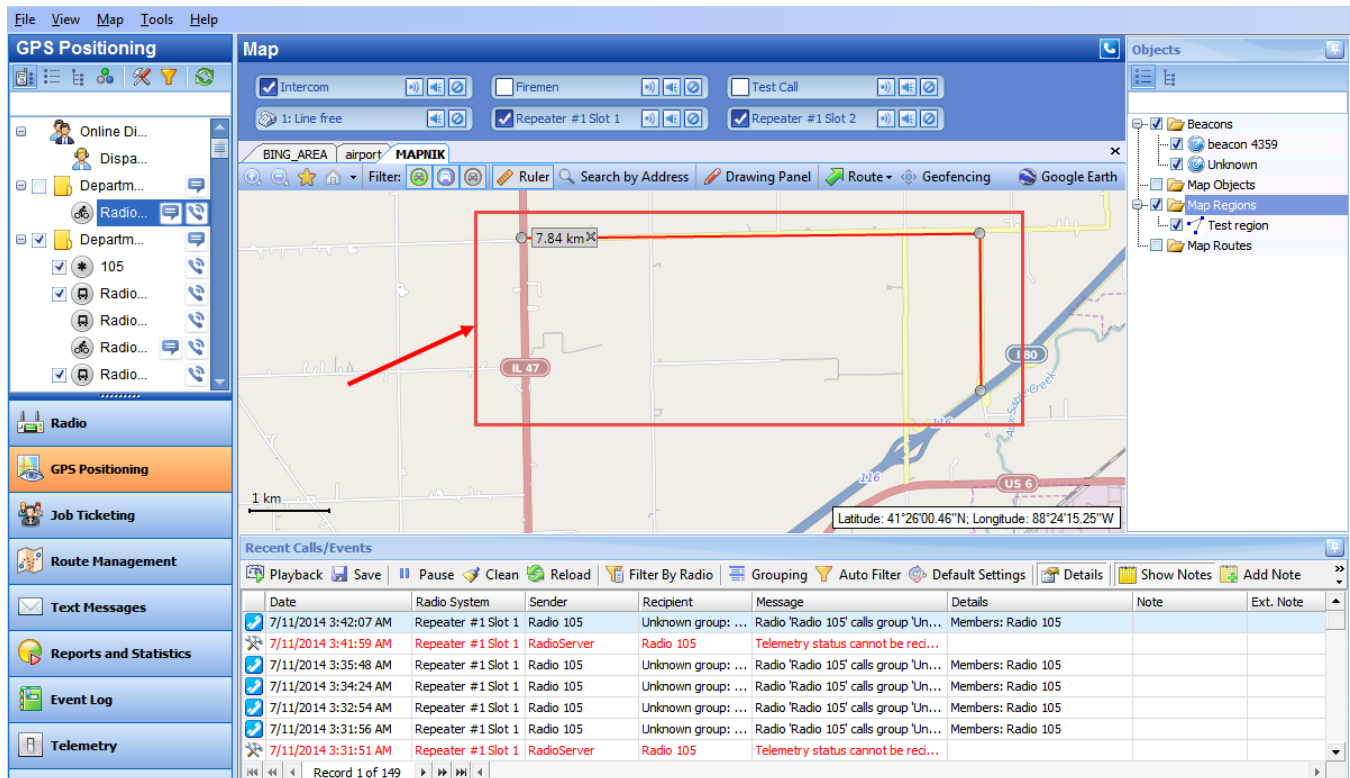
Select filters to display radios on map:

-  - radio on, GPS data received
-  - radio on, no recent GPS
-  - radio off, no recent GPS.

All filters are enabled by default. Click selected icon to disable selected radios type on map.

Ruler

Click  button to enable Ruler tool to measure a distance:



The screenshot shows the TRBOnet software interface. The 'Ruler' tool is active, indicated by a red rectangle on the map and a red arrow pointing to the 'Ruler' button in the top toolbar. The 'Recent Calls/Events' table is visible at the bottom.

Date	Radio System	Sender	Recipient	Message	Details	Note	Ext. Note
7/11/2014 3:42:07 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:41:59 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			
7/11/2014 3:35:48 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:34:24 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:32:54 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:56 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:51 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			

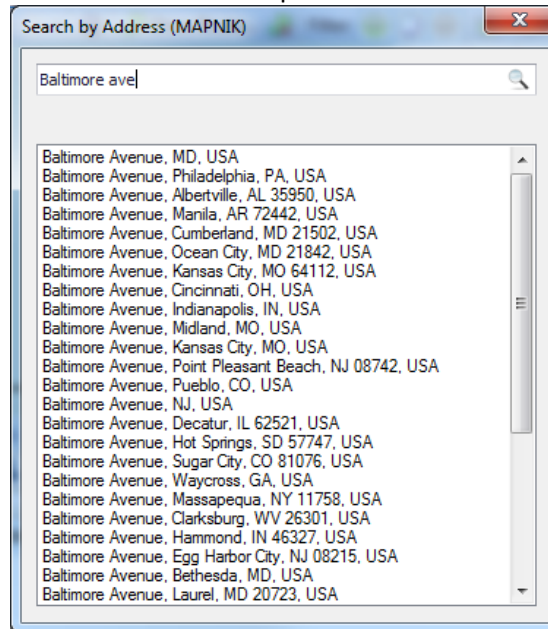
Left-click the selected map point to start measuring. Left-click the selected map point to see measuring results.

Search by Address

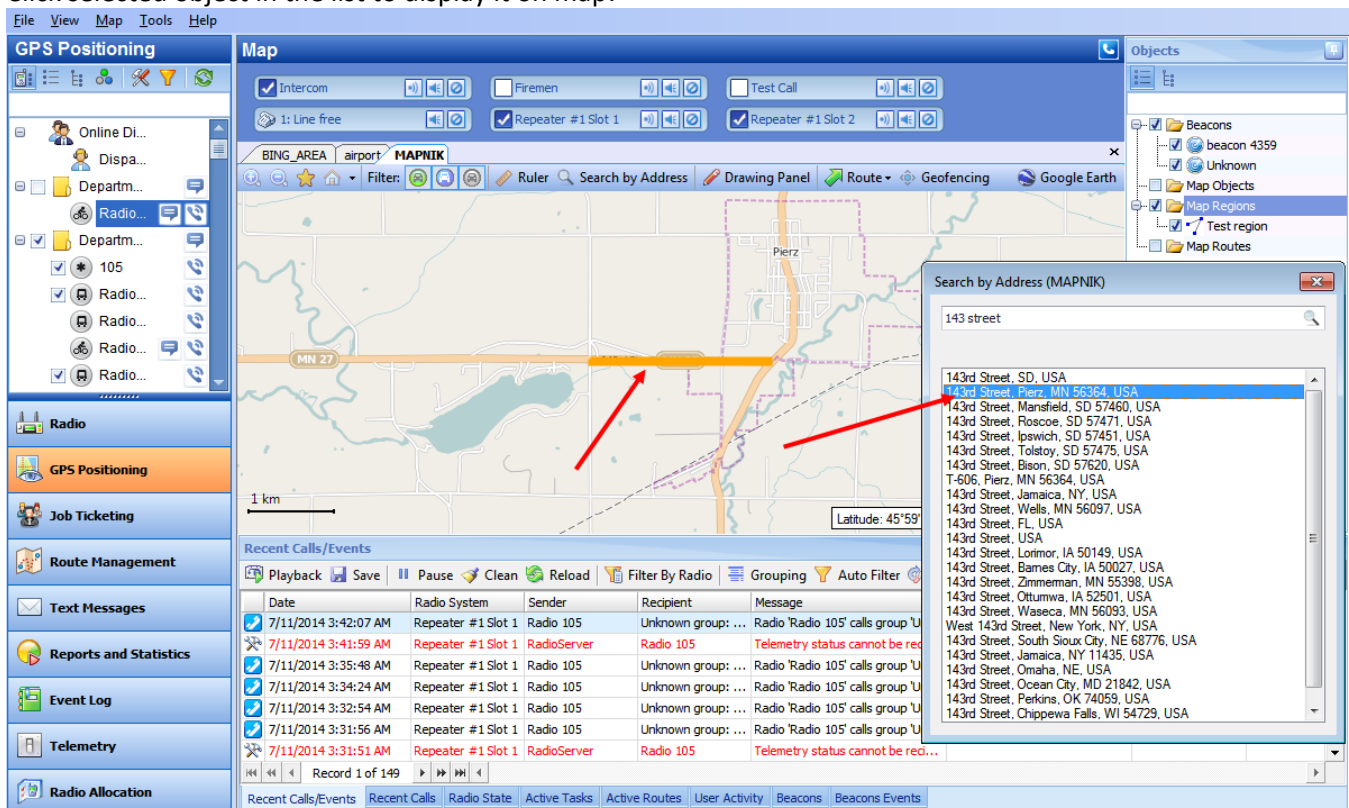
Dispatcher can search map objects by address.

Note: For online maps Internet access required!


Click «Search by address» button to find address on map:

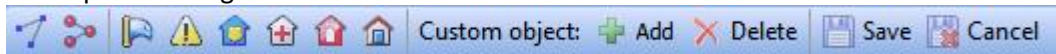


Click selected object in the list to display it on map:



Drawing Panel

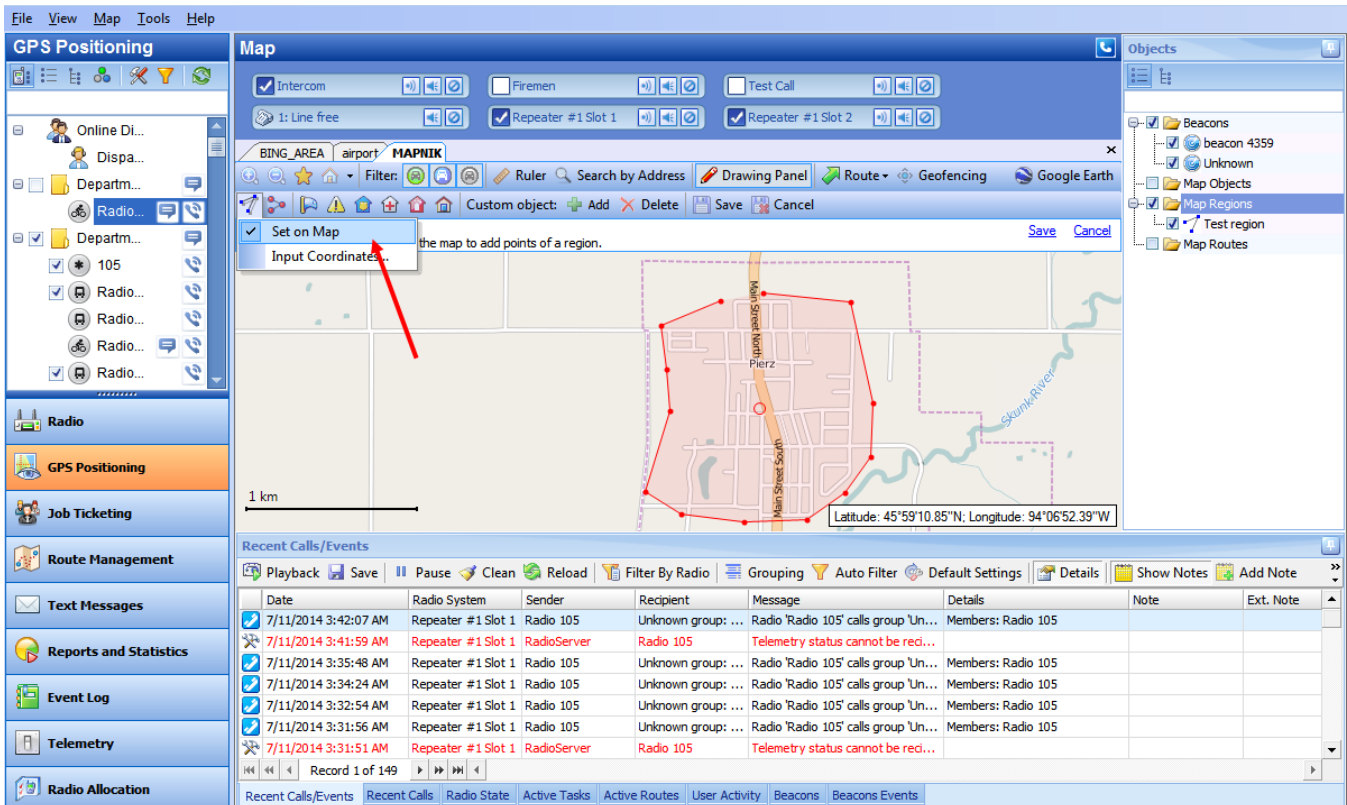
Click  button to open Drawing Panel:



Draw Polygon

Click to open dropdown menu.

1. Select **Set on map** to set polygon points manually on map:

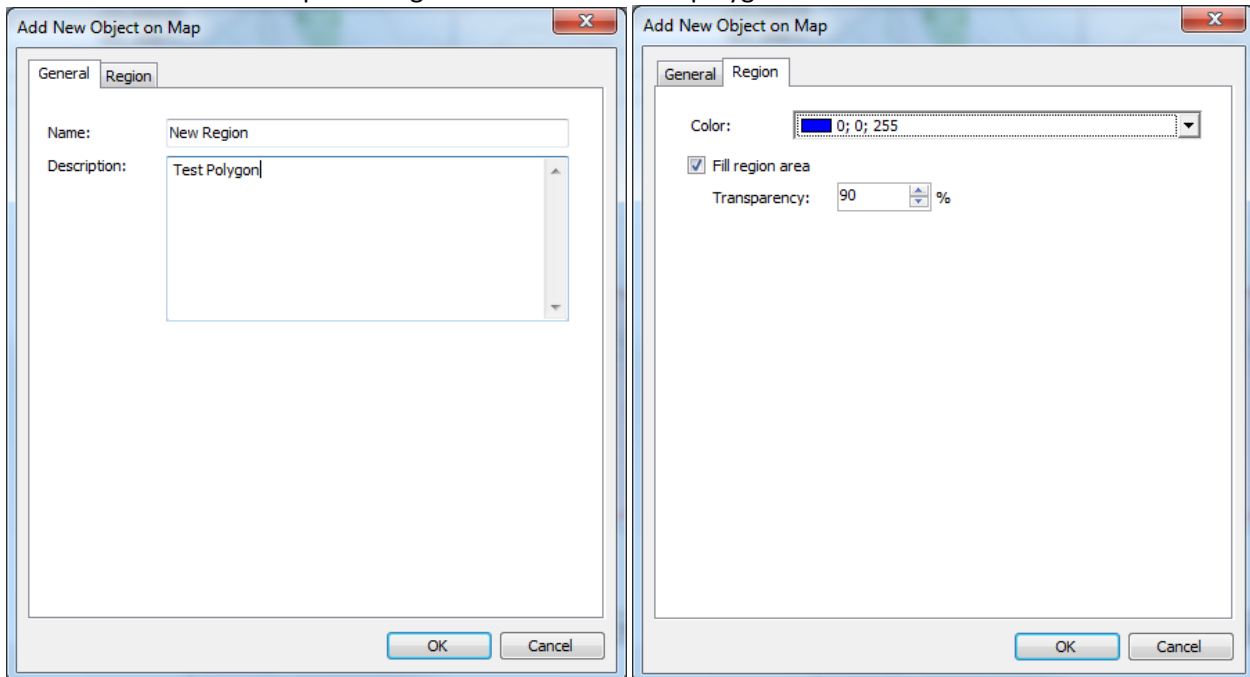


The screenshot shows the TRBOnet software interface. The 'Map' view is active, displaying a map with a red polygon drawn on it. The 'Drawing Panel' is open, and the 'Set on Map' option is selected from the dropdown menu. The interface includes a left sidebar with navigation options, a top menu bar, and a bottom status bar.

Date	Radio System	Sender	Recipient	Message	Details	Note	Ext. Note
7/11/2014 3:42:07 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:41:59 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			
7/11/2014 3:35:48 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:34:24 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:32:54 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:56 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:51 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			

Left-click new polygon points on map to create a new polygon.

Click «**Save**» button on the Map Drawing Toolbar to add a new polygon:



On the **General** page specify the following new region parameters:

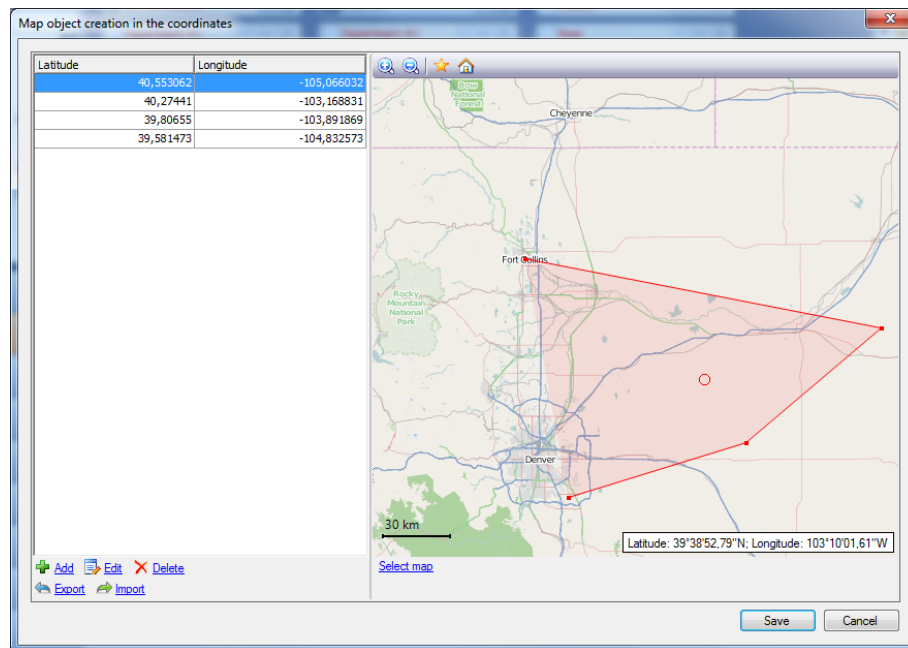
- **Name** – specify a name for new map region
- **Description** – specify a description for new map region.

On the **Region** page specify the following new region parameters:

- **Color** – select color to display new region on map
- **Fill region area** – select to mark the whole region not borders only
- **Transparency** – select filled region transparency level (%).

Click «**OK**» to add a new region on map.

1.2 Select **Input Coordinates** to type polygon points coordinates manually:



Click «**Add**» button to add coordinates.

Click «**Edit**» button to edit selected coordinates.

Click «**Delete**» button to delete selected coordinates.

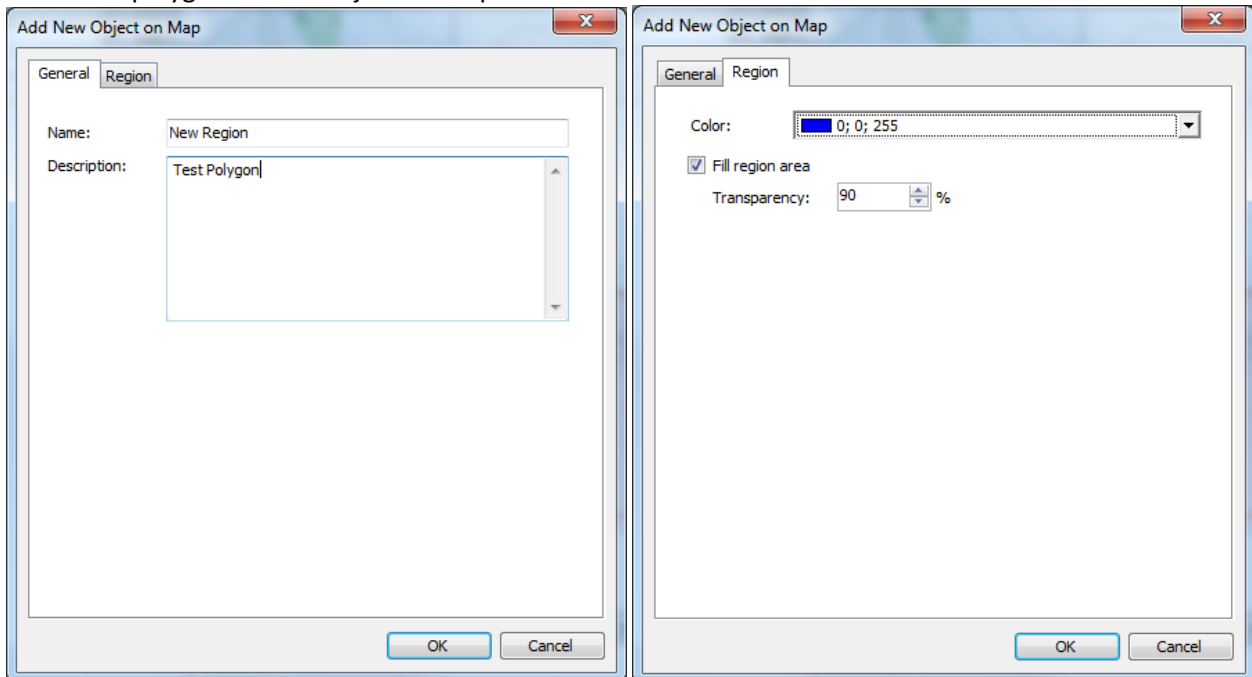
Dispatcher can add polygon coordinates in the Map Objects window and then save these coordinates on the local PC using «**Export**» tool. Coordinates file will be saved as MS Excel table (.csv file). Dispatcher can create any number of coordinate tables and save them on the local PC.

And conversely, Dispatcher can create coordinates list in MS Excel and save it as .csv file to create the polygon with predefined coordinates using «**Import**» tool.

Note: coordinates must be in format as follows: x,xxxx (comma required).

Click «**Save**» button to save new polygon coordinates.

Then save a polygon as new object on map:



On the **General** page specify the following new region parameters:

- **Name** – specify a name for new map region
- **Description** – specify a description for new map region.

On the **Region** page specify the following new region parameters:

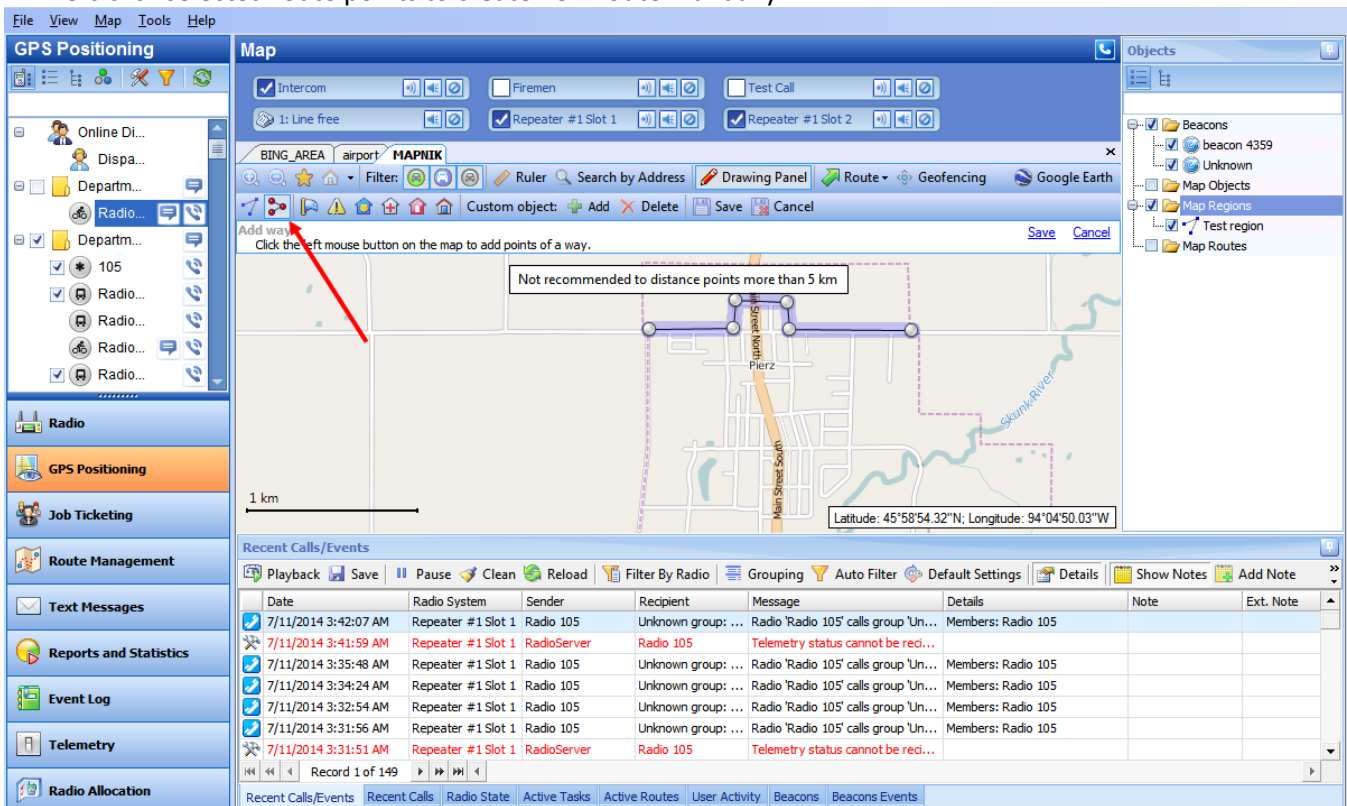
- **Color** – select color to display new region on map
- **Fill region area** – select to mark the whole region not borders only
- **Transparency** – select filled region transparency level (%).

Click «**OK**» to add a new region on map.

2 – Draw Route.

Select to draw route for geofencing feature manually. Selected route will be used as a corridor with adjusted active area.

Left-click selected route points to create new route manually:

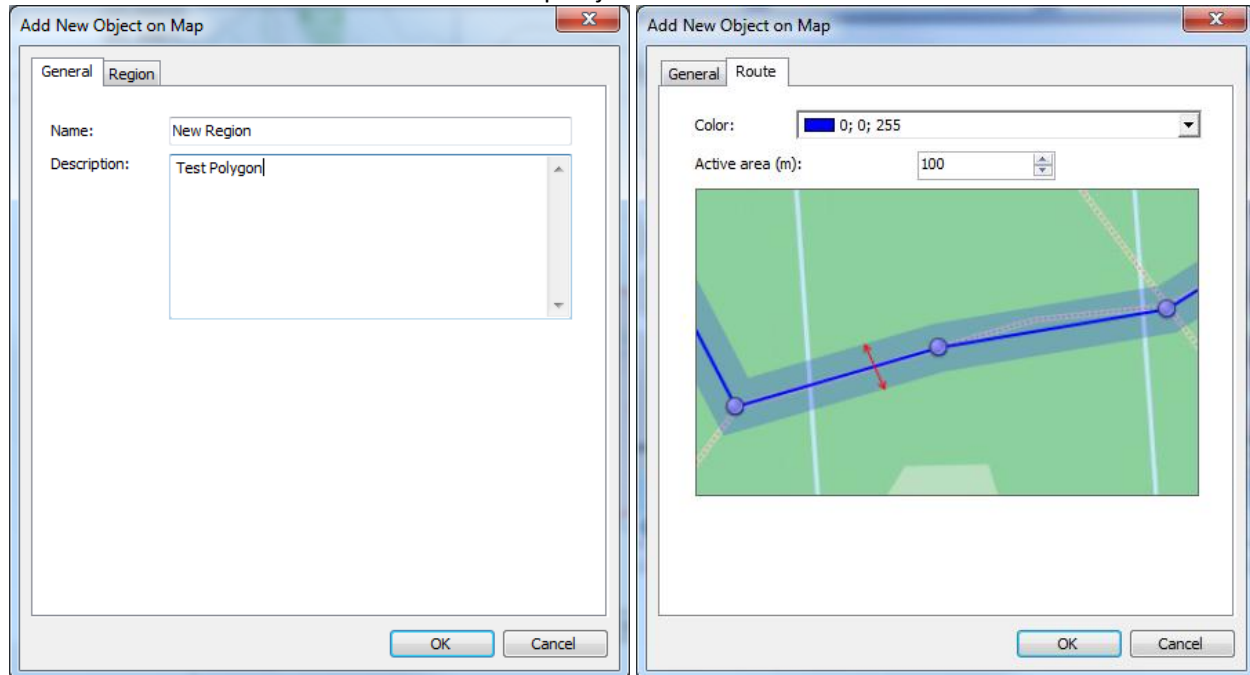


Recent Calls/Events

Date	Radio System	Sender	Recipient	Message	Details	Note	Ext. Note
7/11/2014 3:42:07 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:41:59 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			
7/11/2014 3:35:48 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:34:24 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:32:54 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:56 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:51 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			

New Route displayed on map.

Click «**Save**» button to save new route as map object:



On the **General** page specify the following new region parameters:

- **Name** – specify a name for new map region
- **Description** – specify a description for new map region.

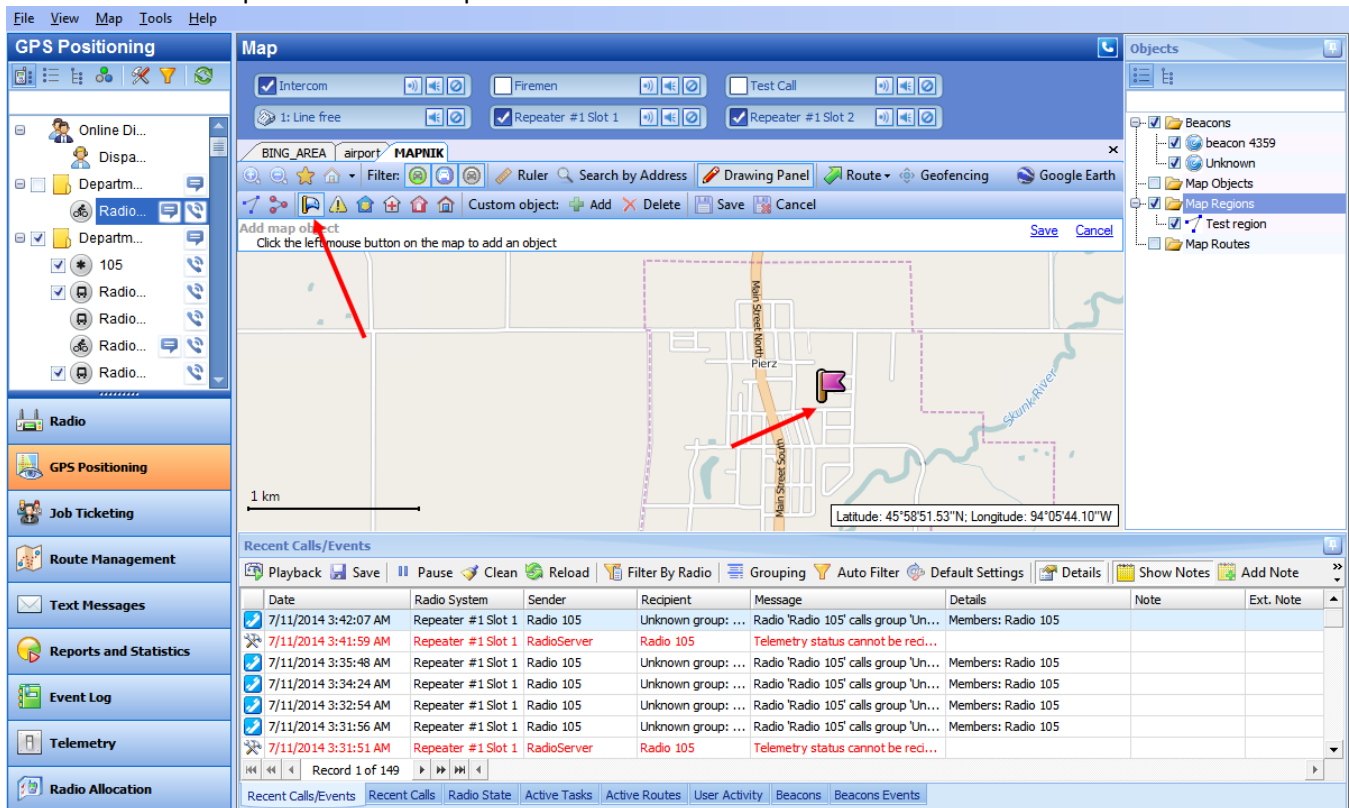
On the **Route** page specify the following new region parameters:

- **Color** – select color to display new route on map
- **Active area** – select «corridor» width. If a radio will pass out of active area, Dispatcher will receive an alarm signal.

Click «**OK**» to save new route as map object.

3 – Add point. Select to add a custom point on map

Left-click on map to add a custom point:



Map

Intercom [checked] Firemen [unchecked] Test Call [unchecked]
 1: Line free [checked] Repeater #1 Slot 1 [checked] Repeater #1 Slot 2 [checked]

BING AREA airport MAPNIK
 Filter: [icon] Ruler Search by Address Drawing Panel Route Geofencing Google Earth
 Custom object: Add Delete Save Cancel

Add map object
 Click the left mouse button on the map to add an object

1 km

Latitude: 45°58'51.53"N Longitude: 94°05'44.10"W

Objects

- Beacons
 - beacon 4359
 - Unknown
- Map Objects
- Map Regions
- Test region
- Map Routes

Recent Calls/Events

Date	Radio System	Sender	Recipient	Message	Details	Note	Ext. Note
7/11/2014 3:42:07 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:41:59 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			
7/11/2014 3:35:48 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:34:24 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:32:54 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:56 AM	Repeater #1 Slot 1	Radio 105	Unknown group: ...	Radio 'Radio 105' calls group 'Un...	Members: Radio 105		
7/11/2014 3:31:51 AM	Repeater #1 Slot 1	RadioServer	Radio 105	Telemetry status cannot be red...			

Record 1 of 149

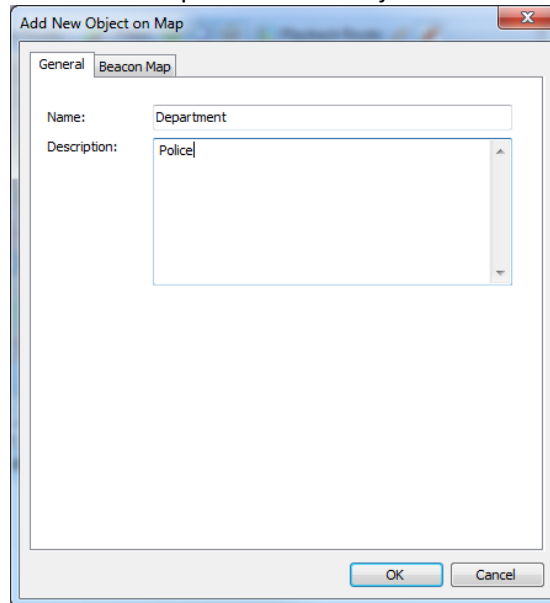
Recent Calls/Events Recent Calls Radio State Active Tasks Active Routes User Activity Beacons Beacons Events

Dispatcher can add the following default map objects types:

- Add Warning
- Add Police Department
- Add Emergency Department
- Add Fire Department
- Add House

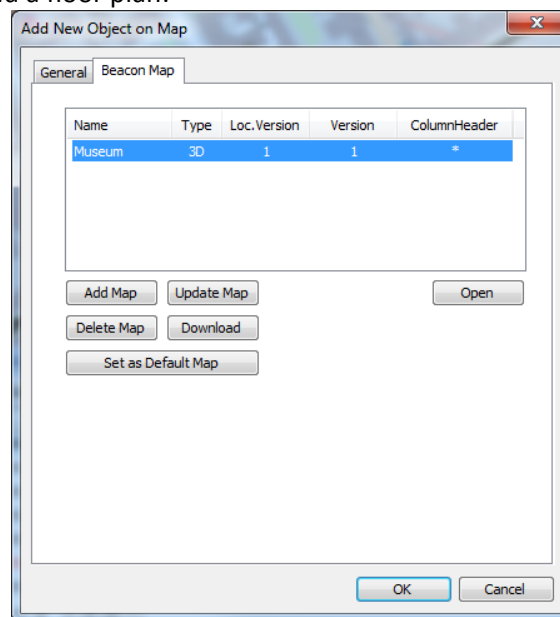
Or add a custom object with any icon.

On the **General** page specify a Name and description for new object.



The screenshot shows a dialog box titled "Add New Object on Map" with a close button (X). It has two tabs: "General" and "Beacon Map". The "General" tab is active. It contains two text input fields: "Name:" with the value "Department" and "Description:" with the value "Police". At the bottom right are "OK" and "Cancel" buttons.

Besides, if you have a 2D or 3D floor plans of the selected object, you can attach these floor plans to the new object. Go to **Beacon Map** to add a floor plan:



The screenshot shows the same dialog box but with the "Beacon Map" tab active. It contains a table with the following data:

Name	Type	Loc.Version	Version	ColumnHeader
Museum	3D	1	1	*

Below the table are several buttons: "Add Map", "Update Map", "Open", "Delete Map", "Download", and "Set as Default Map". "OK" and "Cancel" buttons are at the bottom right.

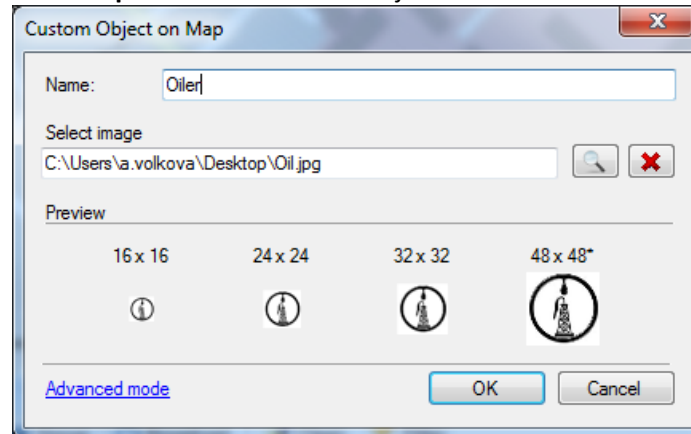
- **Add map** – click to add 2D or 3D map for a building;



Note: For more details on 2D/3D maps see [Map Types](#) section.

- **Update map** – click to update an existing map;
- **Delete map** – click to delete an existing map;
- **Download** – click to download a map from the server
- **Open** - click to open a 2D\3D floor plan in a window.
- **Set as Default Map** – select to set the floor plan as a default map for the object.

Click «**OK**» to add an object.

10 – Add new custom object on map. Select to add new object with custom icon and dimensions on map:

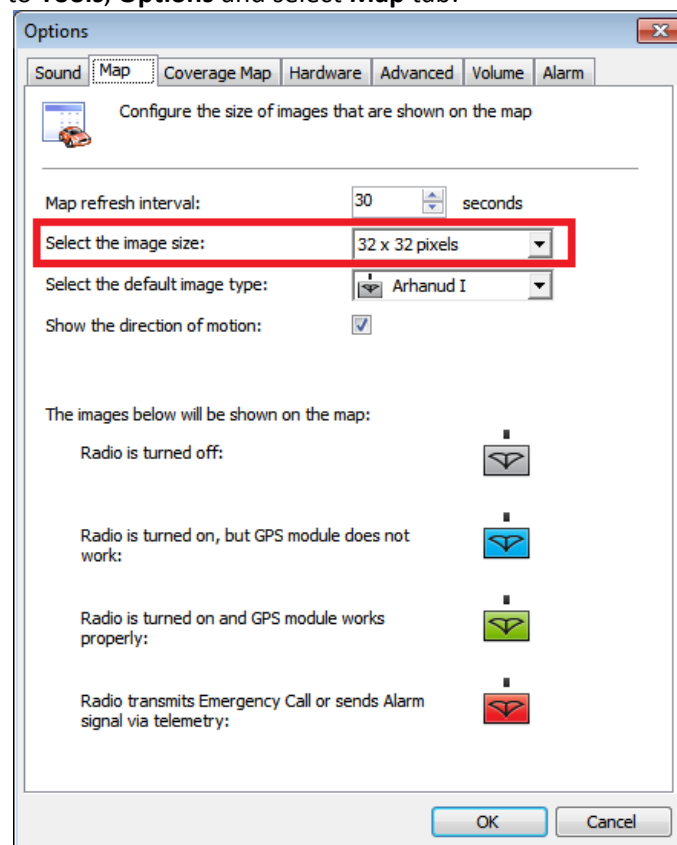


- **Name** – specify a name for new map object
- **Select image** – click  button to select icon picture for new object. Click  button to delete selected picture.

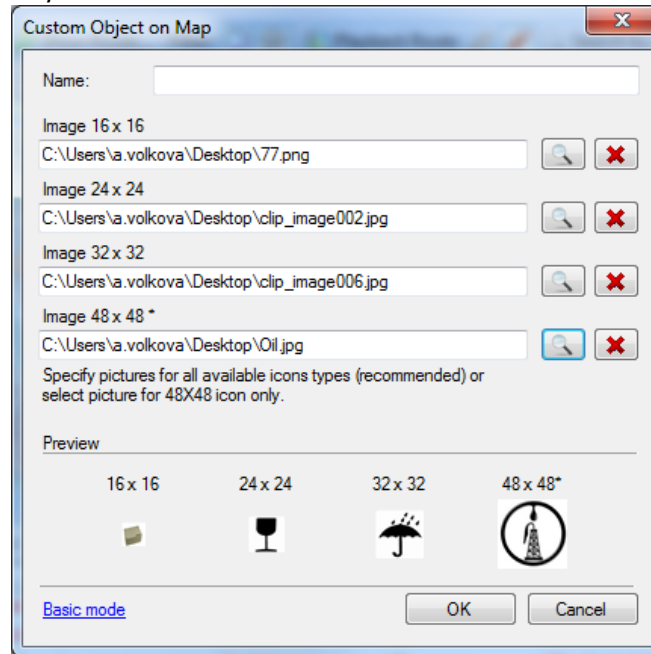
In the «**Preview**» field see available icon dimensions preview.

When **Basic** mode of custom icon used, Dispatcher can select one image for available icon dimensions.

To set icons dimensions go to **Tools, Options** and select **Map** tab:



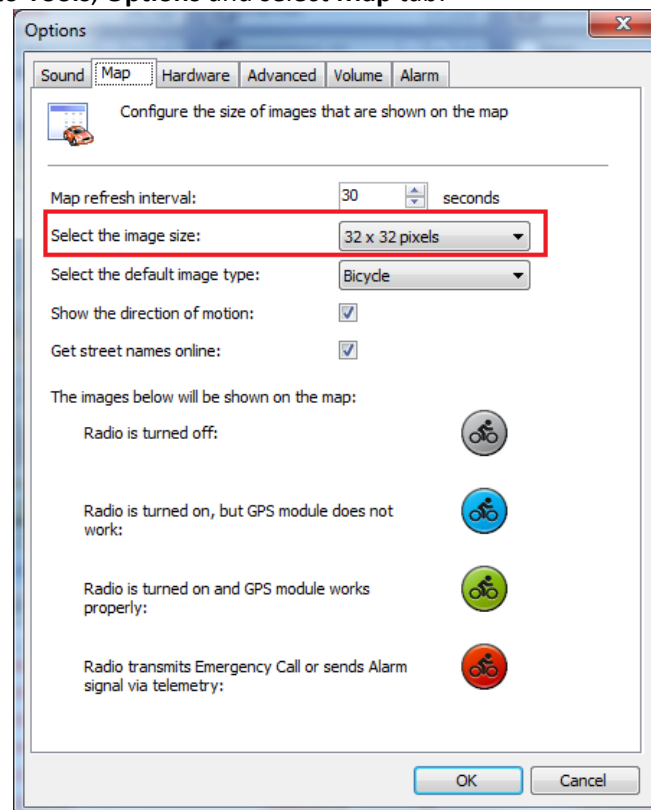
To set different images for every icon dimension click «**Advanced mode**» button:



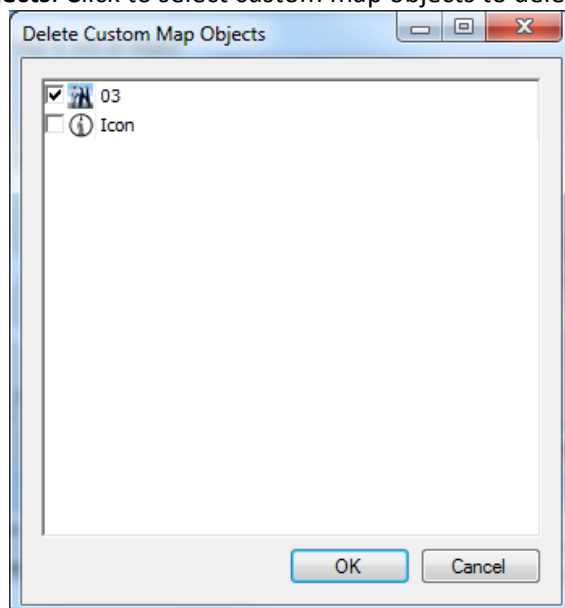
Select the same or different images for available icons dimensions.

Click «**OK**» to save custom icons.

To set icons dimensions go to **Tools, Options** and select **Map** tab:



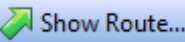
11 – To delete Custom map Objects. Click to select custom map objects to delete:

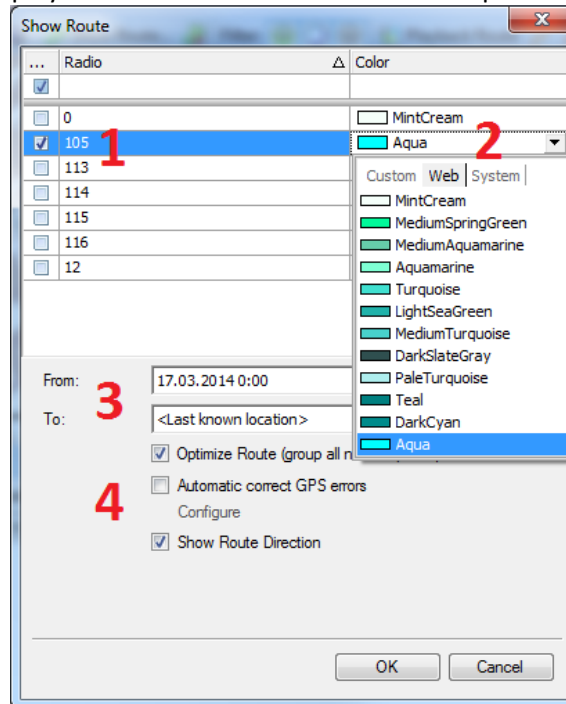


Select objects in the list and click «**OK**» to delete the object.

Route

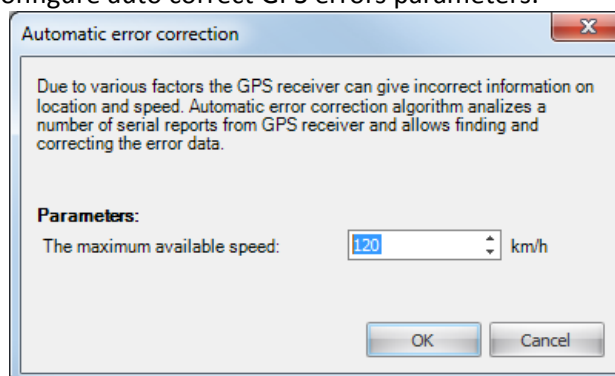
Show Route

Click  button to display radio's route for the selected time period:



- 1 – Select radio to display the route
- 2 – Select color to display the route
- 3 – Select time period to show radio's route
- 4 – Specify advanced options:
 - **Optimize Route (group all nearest points)** – select to group all points in 100 meters radius
 - **Automatic correct GPS errors** - check to detect and correct invalid GPS data.

Click «**Configure**» button to configure auto correct GPS errors parameters:




Select the maximum possible speed for your vehicles.
 Click «**OK**» to save changes.


- **Show Route Direction** – select to display Route as arrow.

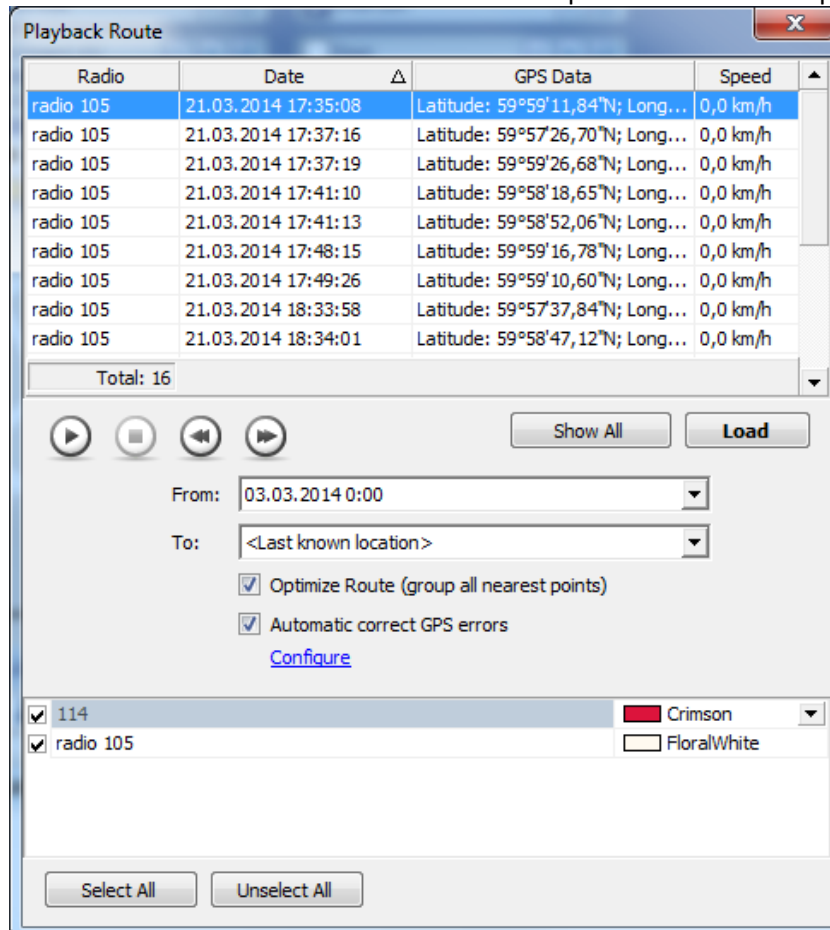
Click «**OK**» to show selected route.

Clear Route

Click  button to hide routes on map.

Playback Route

Click  **Playback Route** button to see selected radios location on map for a selected time period:



The screenshot shows the 'Playback Route' dialog box. It contains a table with columns: Radio, Date, GPS Data, and Speed. The table lists 16 entries for 'radio 105' from March 21, 2014, at 17:35:08 to 18:34:01. Below the table, there are playback controls (play, stop, previous, next), a 'Show All' button, and a 'Load' button. There are also 'From' and 'To' date/time pickers, checkboxes for 'Optimize Route (group all nearest points)' and 'Automatic correct GPS errors', a 'Configure' link, a list of selected radios (114 and radio 105), a color selection dropdown (Crimson and FloralWhite), and 'Select All' and 'Unselect All' buttons.

Radio	Date	GPS Data	Speed
radio 105	21.03.2014 17:35:08	Latitude: 59°59'11,84"N; Long...	0,0 km/h
radio 105	21.03.2014 17:37:16	Latitude: 59°57'26,70"N; Long...	0,0 km/h
radio 105	21.03.2014 17:37:19	Latitude: 59°59'26,68"N; Long...	0,0 km/h
radio 105	21.03.2014 17:41:10	Latitude: 59°58'18,65"N; Long...	0,0 km/h
radio 105	21.03.2014 17:41:13	Latitude: 59°58'52,06"N; Long...	0,0 km/h
radio 105	21.03.2014 17:48:15	Latitude: 59°59'16,78"N; Long...	0,0 km/h
radio 105	21.03.2014 17:49:26	Latitude: 59°59'10,60"N; Long...	0,0 km/h
radio 105	21.03.2014 18:33:58	Latitude: 59°57'37,84"N; Long...	0,0 km/h
radio 105	21.03.2014 18:34:01	Latitude: 59°58'47,12"N; Long...	0,0 km/h

Total: 16

From: 03.03.2014 0:00
 To: <Last known location>

☒ Optimize Route (group all nearest points)
☒ Automatic correct GPS errors
[Configure](#)

☒ 114 ☒ radio 105
 Crimson
 FloralWhite


Select All Unselect All

- **From** – select date to start radio location monitoring;
- **To** – select date to finish radio location monitoring;
- **Optimize Route (group all nearest points)** – select to group all points in 100 meters radius
- **Automatic correct GPS errors** - check to detect and correct invalid GPS data and select the maximum possible speed for your vehicles.

Select radios you want to playback route and select color to mark radio's location.
 Click «**Select All**» button to show routes of all radios registered in the system.

Note: If any radio registered in the system have changed location (GPS data was sent) in a time period selected in the «**Playback Route**» parameters, click «**Show all**» button to display this radio location on map.

Click «**Load**» button to view selected radios location data.

Dispatcher can playback radios route using  controls.

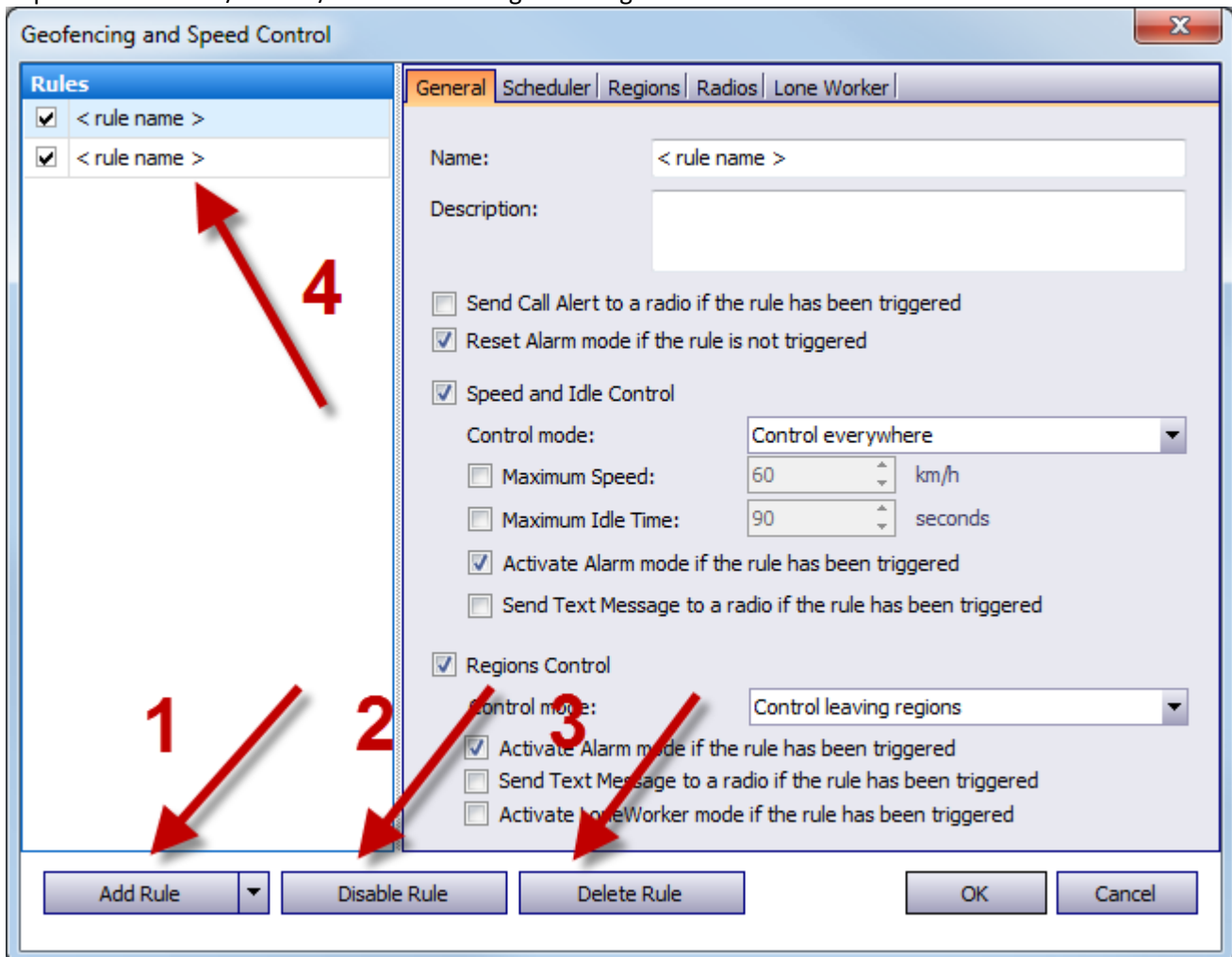
Geofencing

Geofencing allows to control location and speed of radios respectively to specified regions on a map. Geofencing monitoring consists of: manually configured regions and tasks. Regions specify where to use rules, tasks specify how to rules for the regions and radios.

For more details on Geofencing rules configuring see [TRBOnet Administration Guide](#), **Geofencing** section.

Click «**Geofencing**» button to configure geofencing rules:

Dispatcher cans **add/disable/delete** rules for geofencing and edits current rules:



- Click «**Add Rule**» button (1) and select the appropriate rule in the dropdown list to add a rule in current geofencing configuration. New rule is displayed in the list of rules (4).
- Click «**Disable rule**» button (2) to disable selected rule.
- Click «**Delete rule**» button (3) to delete selected rule.

Variable settings for geofencing rules of event types (Map Region, Beacons, Radios and Lone Worker) are represented in the table below:

Event type	Tab Name	Parameters Description
Common Settings	General	<ul style="list-style-type: none"> • Name – specify the rule's name; • Description – add the rule's description;
	Scheduler	<ul style="list-style-type: none"> • Perform the rule on a schedule - click to start scheduler for geofencing rules; • Days of week - select the days to activate the geofencing rule; • Start time - set the time to start the rule; • Stop time - set the time to stop the rule.
	Radios	<ul style="list-style-type: none"> • All radios – select to apply this rule for all radios; • Only selected radios – select to apply the rule for one or several radios; • Select all – click to select all radios in the list; • Deselect all – click to deselect all radios in the list.
Map Region. Allows to configure rules when radio(s) enters or leaves configured map region(s).	General	<ul style="list-style-type: none"> • Regions Control – select to enable regions control; <ul style="list-style-type: none"> • Control mode – select the control mode for regions in the dropdown list; • Activate Alarm mode if the rule has been triggered – select to activate Alarm mode in the Dispatch Console if Regions Control rule has been triggered; • Send Text Message to a radio if the rule has been triggered – select to inform radio subscriber if Regions Control rule has been triggered; • Activate Lone Worker if the rule has been triggered – allows automatically activating a Lone Worker policy for a radio in case of entering or leaving exact region on map. Select to enable this option. • Speed and Idle Control – select to enable speed and idle control; <ul style="list-style-type: none"> • Control mode – select the control mode for speed and idle control in the dropdown list; • Maximum Speed – set the maximum speed for radio; • Maximum Idle Time – set the maximum idle time for radio; • Activate Alarm mode if the rule has been triggered – select to activate Alarm mode in the Dispatch Console if Speed and Idle Control rule has been triggered; • Send Text Message to a radio if the rule has been triggered – select to inform radio subscriber if Speed and Idle Control rule has been triggered; • Send Call Alert to a radio if the rule has been triggered – select to inform radio subscriber if the rule has been triggered; • Reset Alarm mode if the rule is not triggered - select to inform radio subscriber if the rule has not been triggered;
	Scheduler	See above
	Regions. Select regions to apply the rule	<ul style="list-style-type: none"> • All regions – select to apply this rule for all regions; • Only selected regions – select to apply the rule for one or several regions; • Select all – click to select all regions in the list; • Deselect all – click to deselect all regions in the list.
	Radios	See above
	Lone Worker. Enables Lone Worker when the rule has been triggered	<ul style="list-style-type: none"> • All Tasks – select to apply all tasks, configured by Administrator, when the rule has been triggered; • Only selected tasks – select to enable Lone Worker task, configured by Administrator when the rule has been triggered.

<p>Beacons. Allows to configure rules when beacon (s) enters or leaves coverage zone</p>	General	<ul style="list-style-type: none"> • Control mode: <ul style="list-style-type: none"> • Control entering beacon coverage zone – select to enable the rule when a radio enters beacon coverage zone; • Control leaving beacon coverage zone - select to enable the rule when a radio leaves beacon coverage zone; • Activate Alarm mode if the rule has been triggered - select to activate Alarm mode in the Dispatch Console if Beacons rule has been triggered; <ul style="list-style-type: none"> • Reset Alarm mode if the rule is not triggered – select to reset Alarm mode in the Dispatch Console automatically if the rule condition was not triggered (e.g., when «Control entering beacon coverage zone» selected and radio enters to the monitored coverage zone and then instantly leaves the zone, alarm mode in the Dispatch Console will be reseted automatically) • Send Call Alert to a radio if the rule has been triggered – select to inform radio subscriber if the rule has been triggered; • Send Text Message to a radio if the rule has been triggered – select to inform radio subscriber if Beacons rule has been triggered; • Activate Lone Worker if the rule has been triggered – allows automatically activating a Lone Worker policy for a radio in case of entering or leaving beacon coverage zone. Select to enable this option.
	Scheduler	See above
	Radios	See above
	<p>Beacons. Enables rule for selected beacons</p>	<ul style="list-style-type: none"> • All Beacons – select to apply this rule for all beacons; • Only selected beacons – select to apply the rule for one or several beacons.
	Lone Worker	See above.
<p>Radios. Allows use radio(s)1 as a map region and monitor when another radio(s) enters or leaves radio's coverage zone</p>	General	<ul style="list-style-type: none"> • Control mode: <ul style="list-style-type: none"> • Control Entering Region – select to enable the rule when a radio enters the coverage zone associated with another radio; • Control Leaving Regions - select to enable the rule when a radio leaves the coverage zone associated with another radio; • Activate Alarm mode if the rule has been triggered - select to activate Alarm mode in the Dispatch Console if Radios rule has been triggered; • Reset Alarm mode if the rule is not triggered – select to reset Alarm mode in the Dispatch Console automatically if the rule condition was not triggered (e.g., when «Control Entering Region» selected and radio enters to the monitored coverage zone and then instantly leaves the zone, alarm mode in the Dispatch Console will be reseted automatically); • Send Text Message to a radio if the rule has been triggered – select to inform radio subscriber if Radios rule has been triggered; • Send Call Alert to a radio if the rule has been triggered – select to inform radio subscriber if the rule has been triggered; • Minimum distance between radios – select a distance in meters. When the distance less than selected value, the rule will be triggered according to settings above. • Color of region – select radio coverage zone color.
	Scheduler	See above
	Regions	Select radio coverage zones the rule is applied for.
	Radios	See above

Lone Worker. Allows configure scheduled Lone Worker task	General	<ul style="list-style-type: none"> • Days of week - select the days to activate the Lone Worker rule; • Start time - set the time to start the rule; • Stop time - set the time to stop the rule.
	Radios	See above
	Lone Worker	Select all or some configured Lone Worker tasks. When Lone Worker task is mentioned as « Disabled », Dispatcher should enable the task. <i>For more details on Geofencing rules configuring see TRBOnet Administration Guide, Geofencing section.</i>

Google Earth

Click  button to open Google Earth application.

Note: Google Earth should be installed on the PC. *For more details on working in Google Earth visit Google official website <http://www.google.co.uk/earth>*

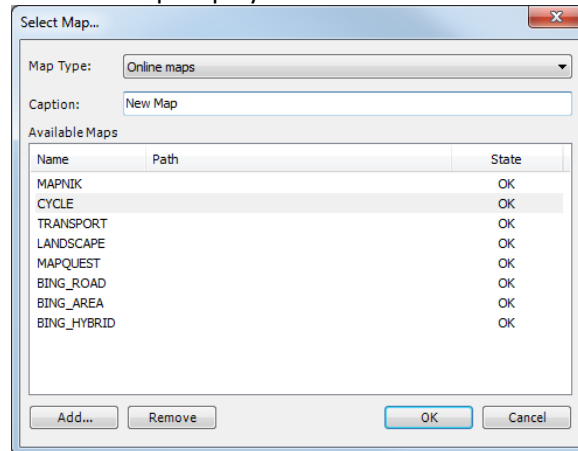
Coverage Map

Coverage Map option allows to see RSSI level on map. Enable «**Coverage Map**» on Map Tools panel.
For more details on Coverage Map see [Options, Coverage Map](#) section.

Note: check your license supports Coverage Map feature.

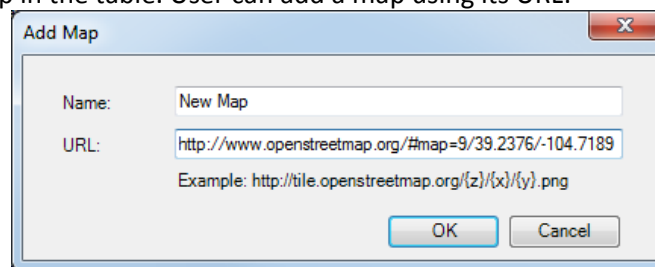
Select Map

Allows adding the new tab with selected map displayed:



- **Map Type** – select Map Type in the Dropdown List;
- **Caption** – specify the caption for the new map. New Tab Name will be the same as Caption;

Available Maps – select map in the table. User can add a map using its URL:



Click «**Add**» button, type in the Name for new map and specify the URL.
 The map should be compatible with OSM maps in Mercator projection.

For more information about map calibration see the following [video tutorial](#).

Type in map URL, as shown in the example below the URL field.

- **Z** – zoom. Type in zoom value for the map.
- **X** – coordinate in X –direction.
- **Y** – coordinate in Y – direction.

Click «**OK**» to add a map.

Map Types

Online maps:

- **OpenStreetMaps** – free online map. Includes MAPNIK, CYCLE, TRANSPORT, LANDSCAPE and MAPQUEST subtypes. *For more details on OpenStreetMaps visit official web site:* <http://www.openstreetmap.org>
- **Microsoft BING** – commercial maps from Microsoft. Includes BING_ROAD, BING_AREA and BING_HYBRID subtypes. User can try BING Maps for 90 days and then get a Basic Key. Visit <http://msdn.microsoft.com/en-us/library/ff428642.aspx> to get a Basic Key.

Offline Maps

- **TRBOnet** – internal map-making resource. User can customize a part of online maps according to requirements. *For more details on map calibration go to TRBOnet knowledge base and read the following article:* [TRBOnet format \(old\)](#).
- **TMap** – internal map-making resource. User can create an offline copy of online maps for selected region according to requirements. User can create a map using any picture via TRBOnet.MapEdit tool. Go to C:\Program Files\Neocom Software\TRBOnet Dispatch Software\TRBOnet.MapEdit.exe. *For more details on map calibration go to TRBOnet knowledge base and read the following article:* [TMap format \(new\)](#)
- **GIS Panorama** – offline Russian map. *For more details visit the official web site:* <http://www.gisinfo.ru/>
- **Beacon 2D** – two-dimension offline map for Indoor positioning. User can create maps using Beacon2DMapGenerator tool. To get Beacon2DMapGenerator contact your local TRBOnet dealer.
- **Beacon 3D** – tree-dimension map for Indoor positioning. User can use any dicectX(.x) files as map.
- **MapLib map format** – free offline map. Requires a lot of internal memory. Requires Franson GPSTools. *For more details on Franson GPSTools visit the official web site:* <http://franson-gpstools.software.informer.com/2.3/>
- **TatukGIS** – commercial offline map. *For more details on TatukGIS visit the official web site:* <http://www.tatukgis.com/>.

Dock Window

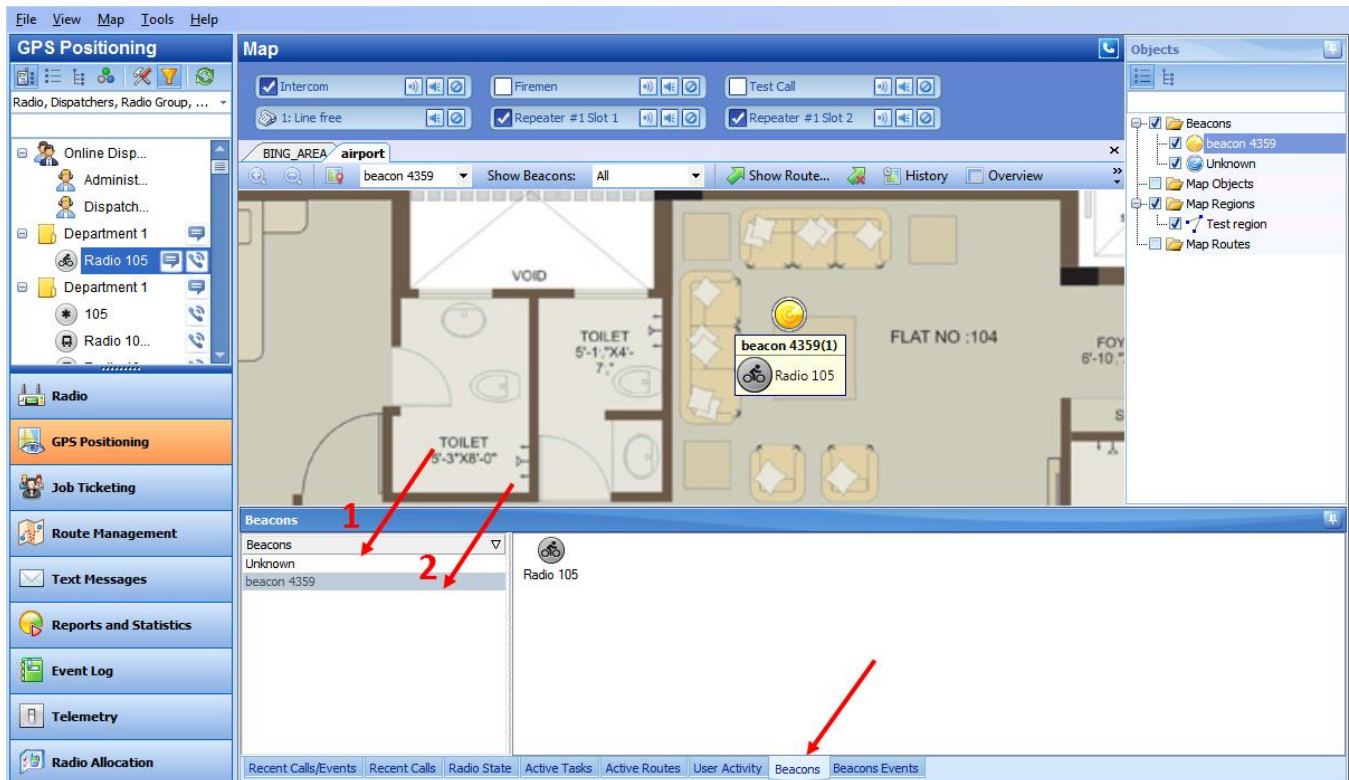
Dock Window displays the following dispatcher actions:

- Monitor and listen to recent calls and view RadioServer events
- Monitor selected radio state
- Monitor active tasks for selected radio
- Monitor active routes for selected radio
- Enable and disable User Activity monitoring
- Monitor beacons and beacons events.

For more details on Dock Window see [Dock Window](#) section.

Beacons

On the «**Beacons**» page Dispatcher can view Beacons registered in the system and radios attached to these beacons:

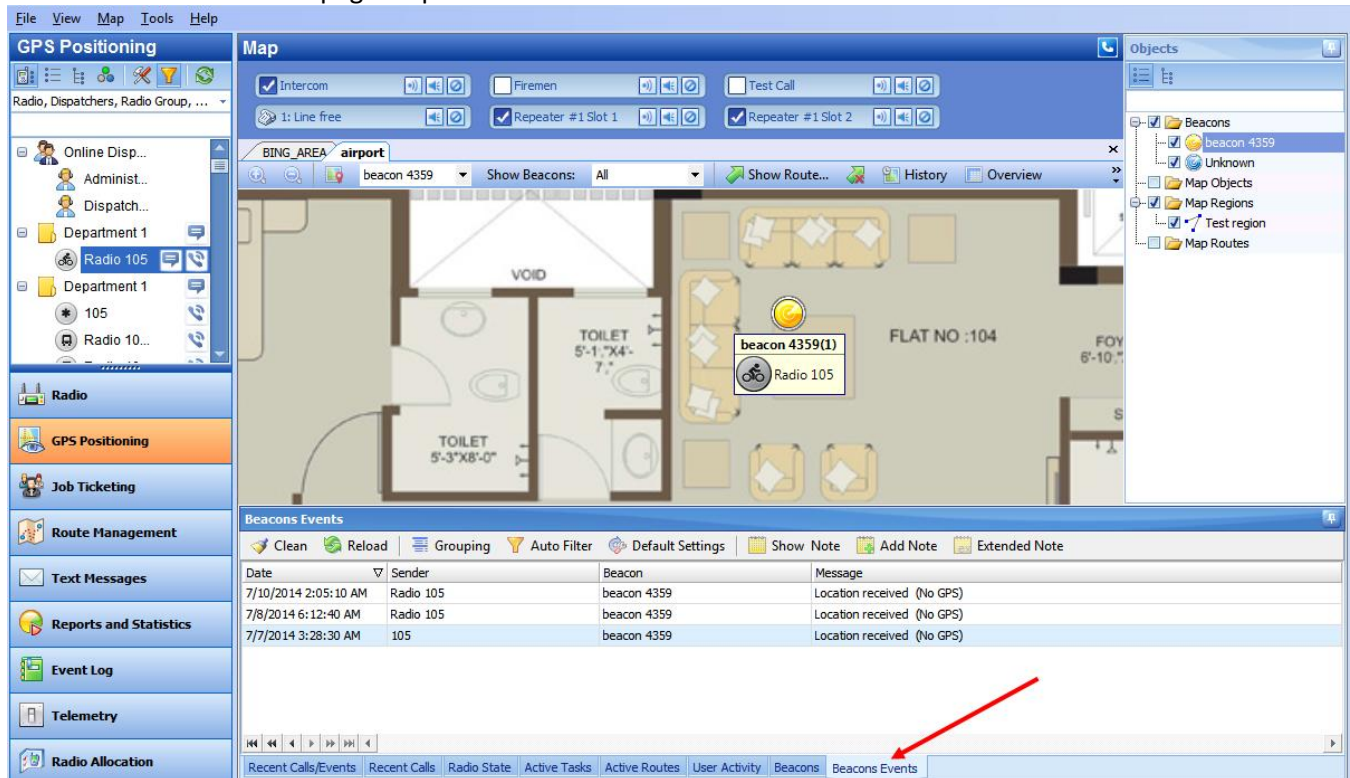


Click «**Unknown**» (1) to see radios not attached to a beacon.

All beacons registered in the system are listed below (2). Click any beacon to see the radio attached to this beacon.

Beacons Events

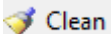
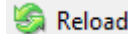
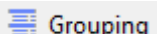
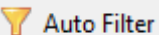
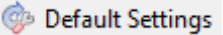
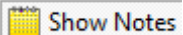
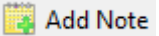
On the «Beacons Events» page Dispatcher can see beacons location data:



Beacons Events

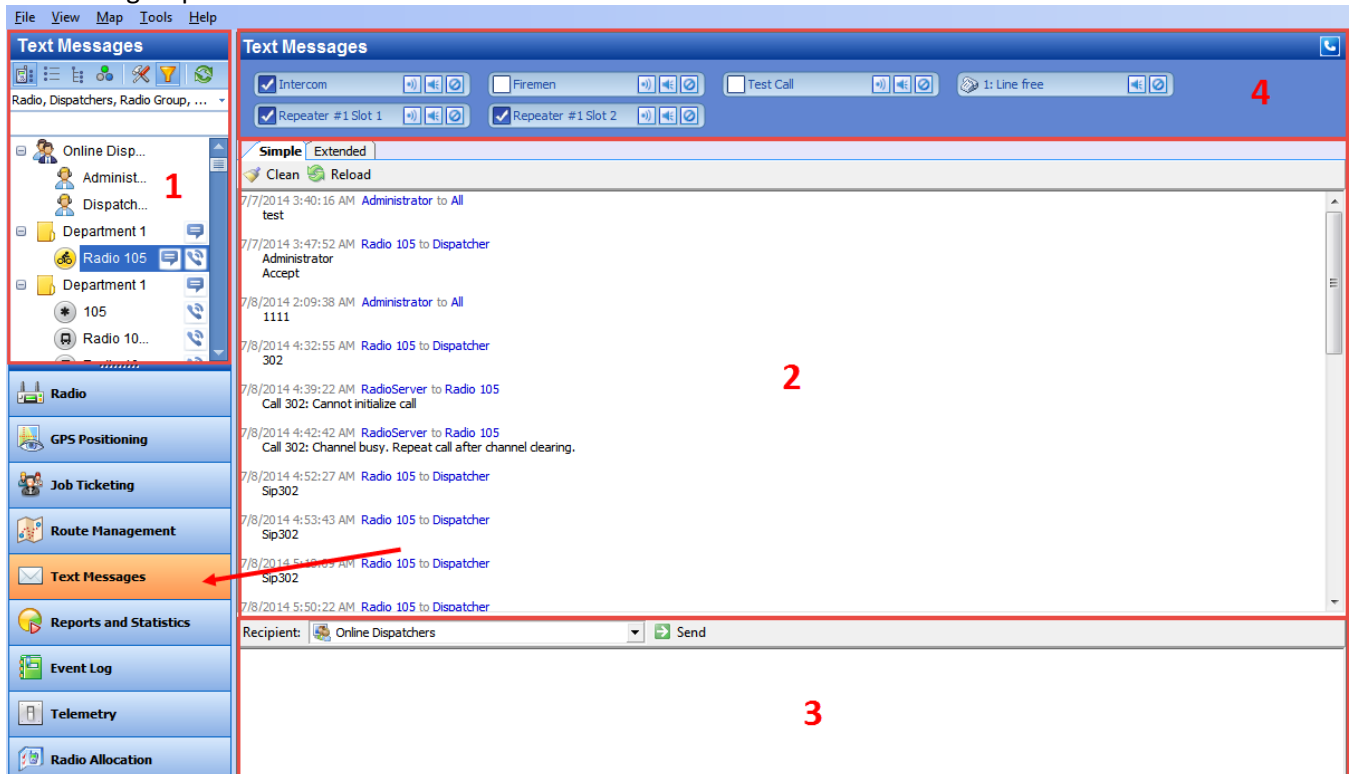
Date	Sender	Beacon	Message
7/10/2014 2:05:10 AM	Radio 105	beacon 4359	Location received (No GPS)
7/8/2014 6:12:40 AM	Radio 105	beacon 4359	Location received (No GPS)
7/7/2014 3:28:30 AM	105	beacon 4359	Location received (No GPS)

Dispatcher can view messages on beacons location (received or lost) and GPS data.

1. Click  **Clean** button to hide beacons events. Click  **Reload** button to show all beacon events.
2. Click  **Grouping** button to group events. Select column you want to group events by. Drag and drop selected column header in the Grouping field.
3. Click  **Auto Filter** button to set filter for events. You can filter Events by any parameter. E.g. to filter by selected sender select «**Sender**» column and type in sender name to filter the data
4. Click  **Default Settings** button to apply default settings to all events.
5. Click  **Show Notes** button to enable **Note** column. All notes added by Administrator and Dispatchers are shown in the Notes column. So, you can mark events to find it by notes.
6. Click  **Add Note** button to add a note for selected event. The note will be displayed in the beacons events log if «**Show Notes**» mode enabled.

Text Messages

On Text Messages tab Dispatcher can review and send text messages to other dispatchers, individual subscribers and radio groups:



1 – Navigation Tree. Displays dispatchers and subscribers available for text communication.

Note: Radio must be equipped with a display to receive Text Messages

2 – Message session panel. Displays the latest messages transmitted via radio channel.

3 – New Message panel. Provides you with text sending options.

4 – Calls Pane in compact mode. Allows make a voice calls.

To Send a Text Message

Dispatcher can send text message to:

- Selected Radio Subscriber
- Selected Radio Group
- Selected Logical Group
- Selected Dispatcher
- All Online Dispatchers.

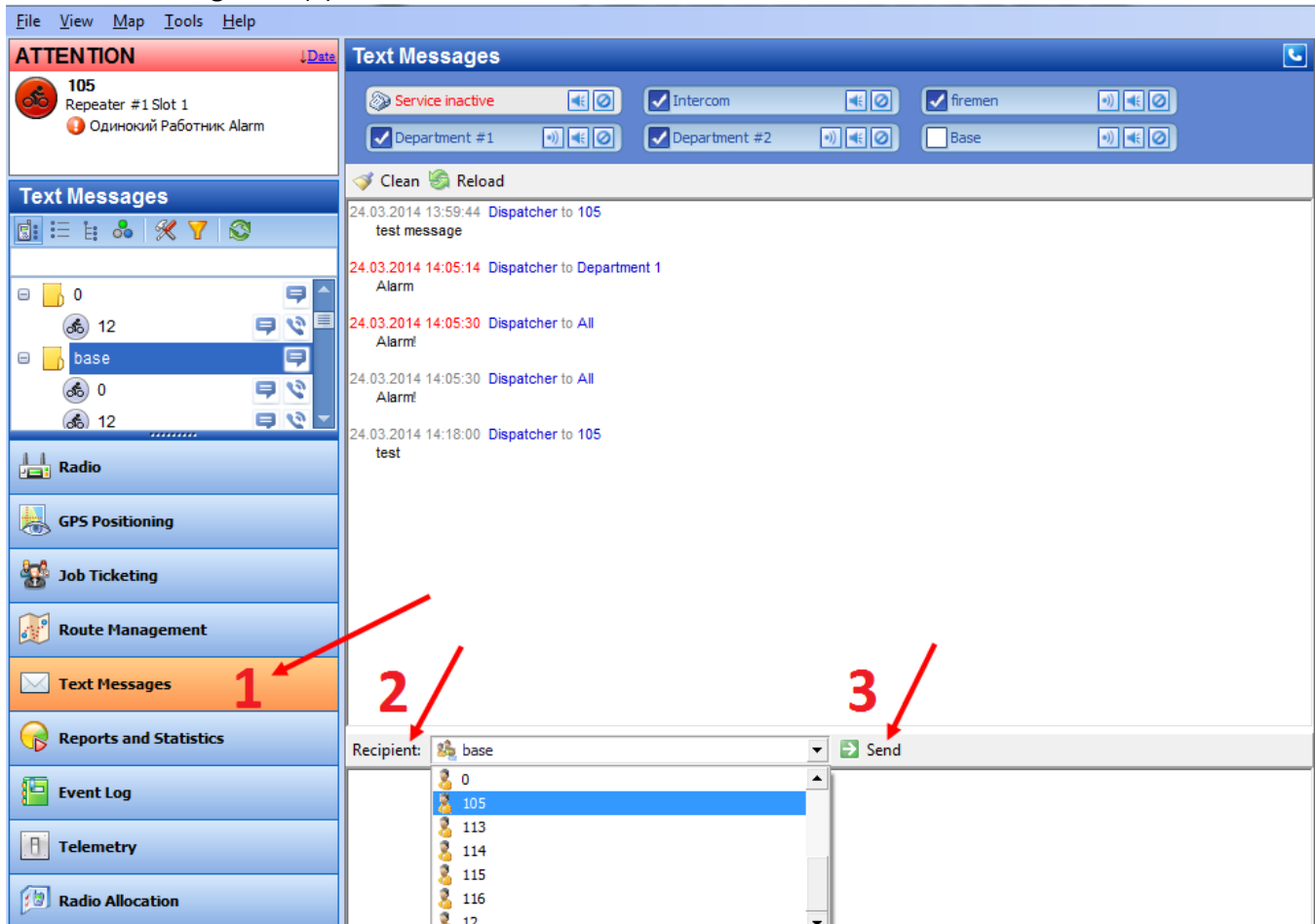
Dispatcher can send text message to selected subscribers from:

- Message session panel
- Navigation Tree

Send Text Message from Message Session Panel

Dispatcher can send simple text messages from Message session panel. To send a message to a multiple radios (groups and dispatchers) using predefined templates see [Send Text Message from Navigation Tree](#) section.

Go to **Text Messages** tab (1):



Specify a Recipient (2). Radio Subscribers, Radio Group, Logical Groups and Dispatchers are represented as alphanumeric descending list.

Click **«Send»** button to send a text message.

The message is displayed in the Message session panel.

If message details are highlighted red it means that the Recipient is offline and the message will be sent as soon as recipient will be registered in the network again.

If message details are highlighted grey, the message is delivered.

Note: an offline user will receive the message as soon as one gets online

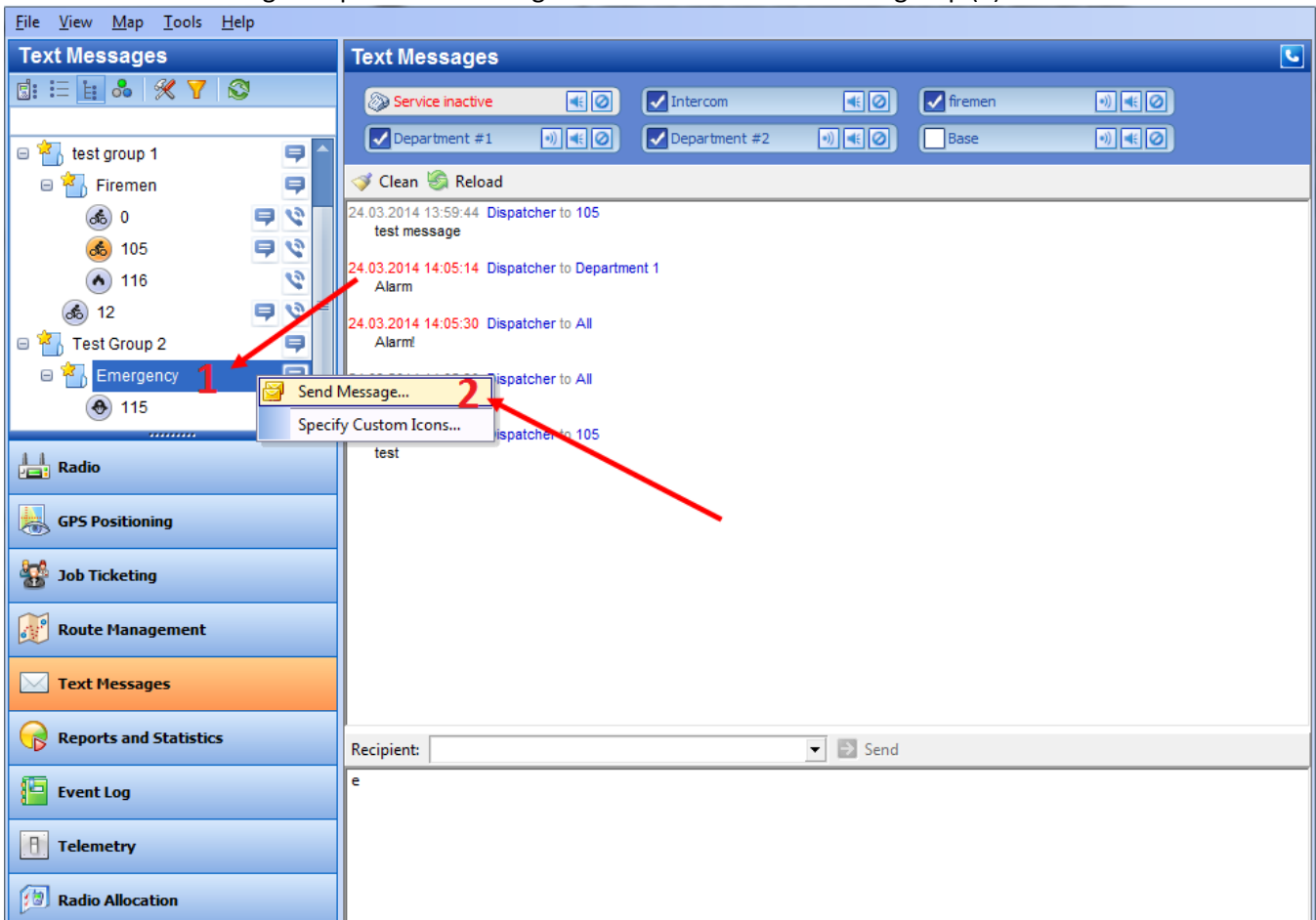
All messages are displayed in the Message Session Panel.

Click **«Clean»** button to hide message history.

Click **«Reload»** button to display all log records list.


Send Text Message from Navigation Tree

Dispatcher can send text messages to a multiple radios (groups and dispatchers) using predefined templates. Select new text message recipient in the Navigation Tree – selected radio or group (1):

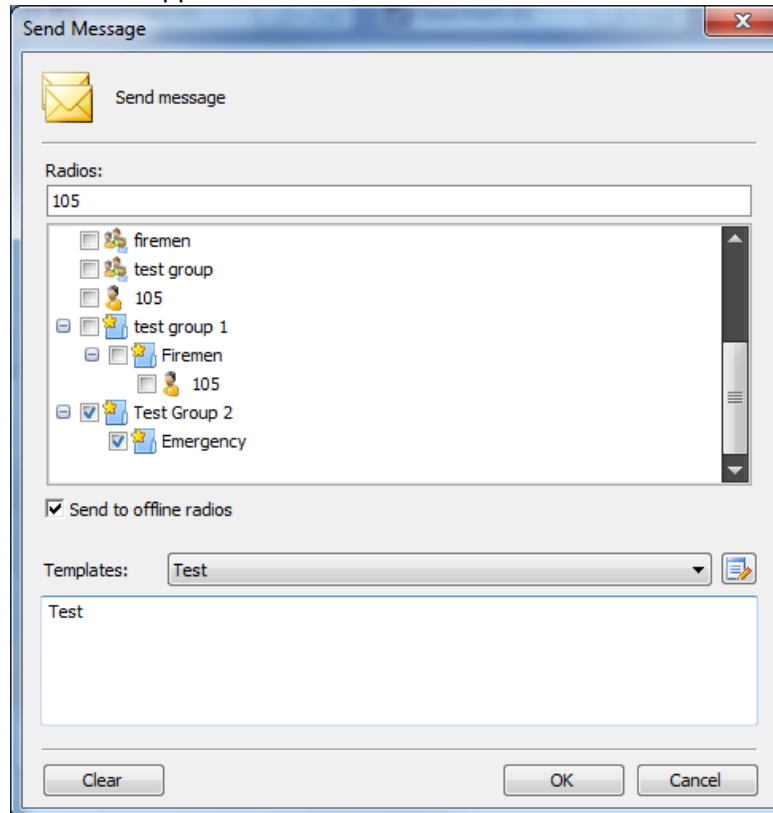


Right-click selected recipient (radio subscriber, radio group, logical group or dispatcher(s)) to open context menu and select «Send Message» command (2).

Note: Context Menu for Radios, Radio Groups and Logical Groups can be different.


To send a text message you can click  button.

New Message parameters window appears:



The 'Send Message' dialog box contains the following elements:

- Send message:** A yellow envelope icon and the text 'Send message'.
- Radios:** A text field containing '105' and a list of radio groups with checkboxes:
 - ☐ firemen
 - ☐ test group
 - ☐ 105
 - ☒ test group 1
 - ☐ Firemen
 - ☐ 105
 - ☒ Test Group 2
 - ☒ Emergency
- Send to offline radios:** A checked checkbox.
- Templates:** A dropdown menu showing 'Test' and a button with a document icon.
- Text field:** A large text area containing the word 'Test'.
- Buttons:** 'Clear', 'OK', and 'Cancel' at the bottom.

- **Radios** – Dispatcher can filter radios typing Radio name in the field. E.g. to find out selected radio with Radio Name «105» and to view all Radio and Logical groups which include the radio, type in «105» in the «Radios» field. Check radios or groups to send a text message.
- **Send to offline radios** – select to send a text message to an offline radio. The default delivery period is unlimited. *For more details on delivery period configuration read [TRBOnet Administration Guide, Advanced Settings](#) section.*
- **Templates.** There are some predefined text templates to send to a radio. Select the template in the dropdown list or click  button to edit an existing templates or add new ones. Template text is displayed in the text field.
- Click «**OK**» to send a text message to selected subscribers.

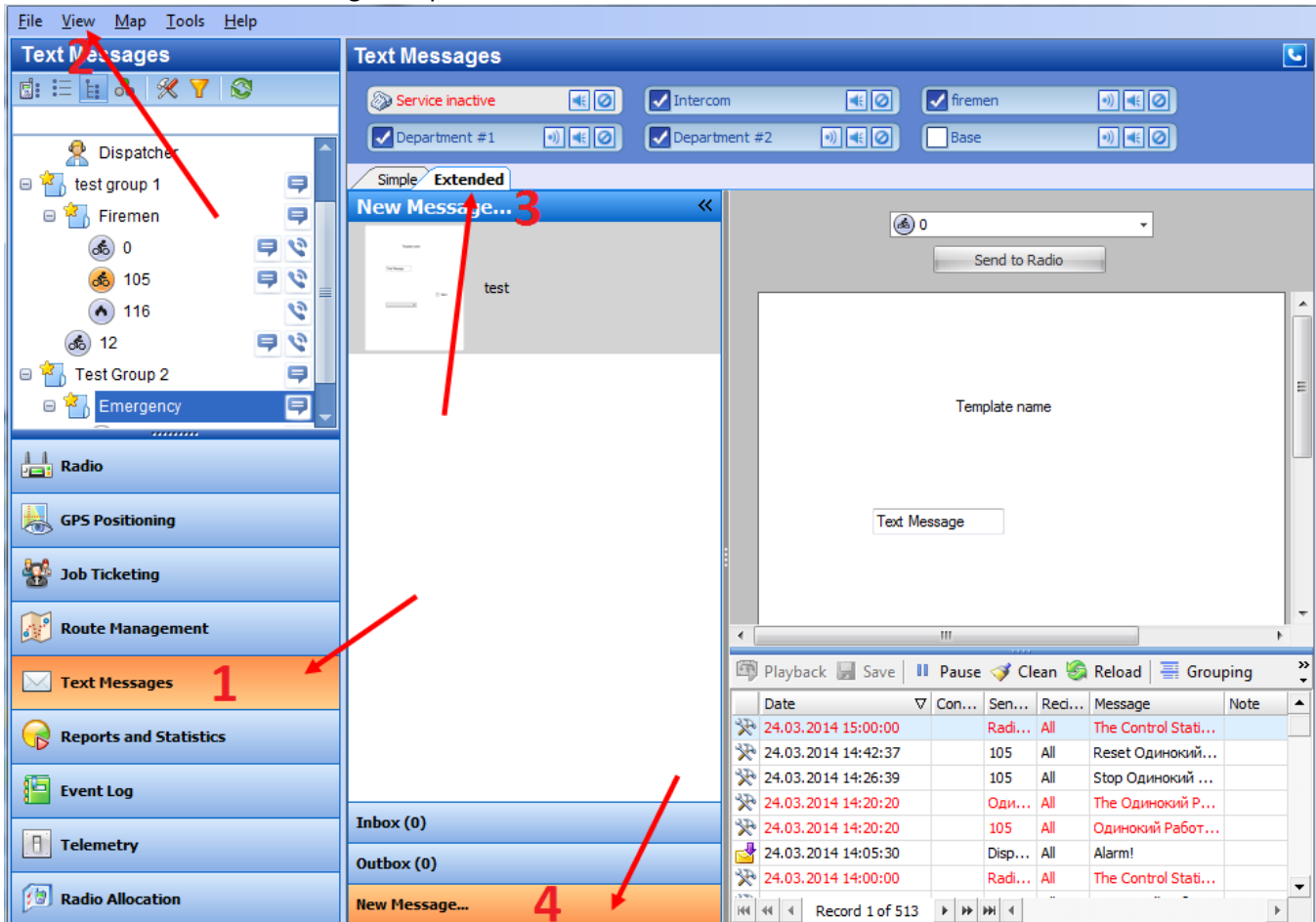
Note: an offline user will receive the message as soon as it comes online

Extended Messages

Extended Messages - is a special function allowing the users to send detailed preconfigured templates containing necessary information to each other with the help of the special TRBOnet Dispatch Software application.

This service was created especially for the clients that need to use more detailed and structured messages for their work. If the standard messages are not enough to contain all the information you need to send you may use Extended Messages service.

How to send Extended Message template to a radio:

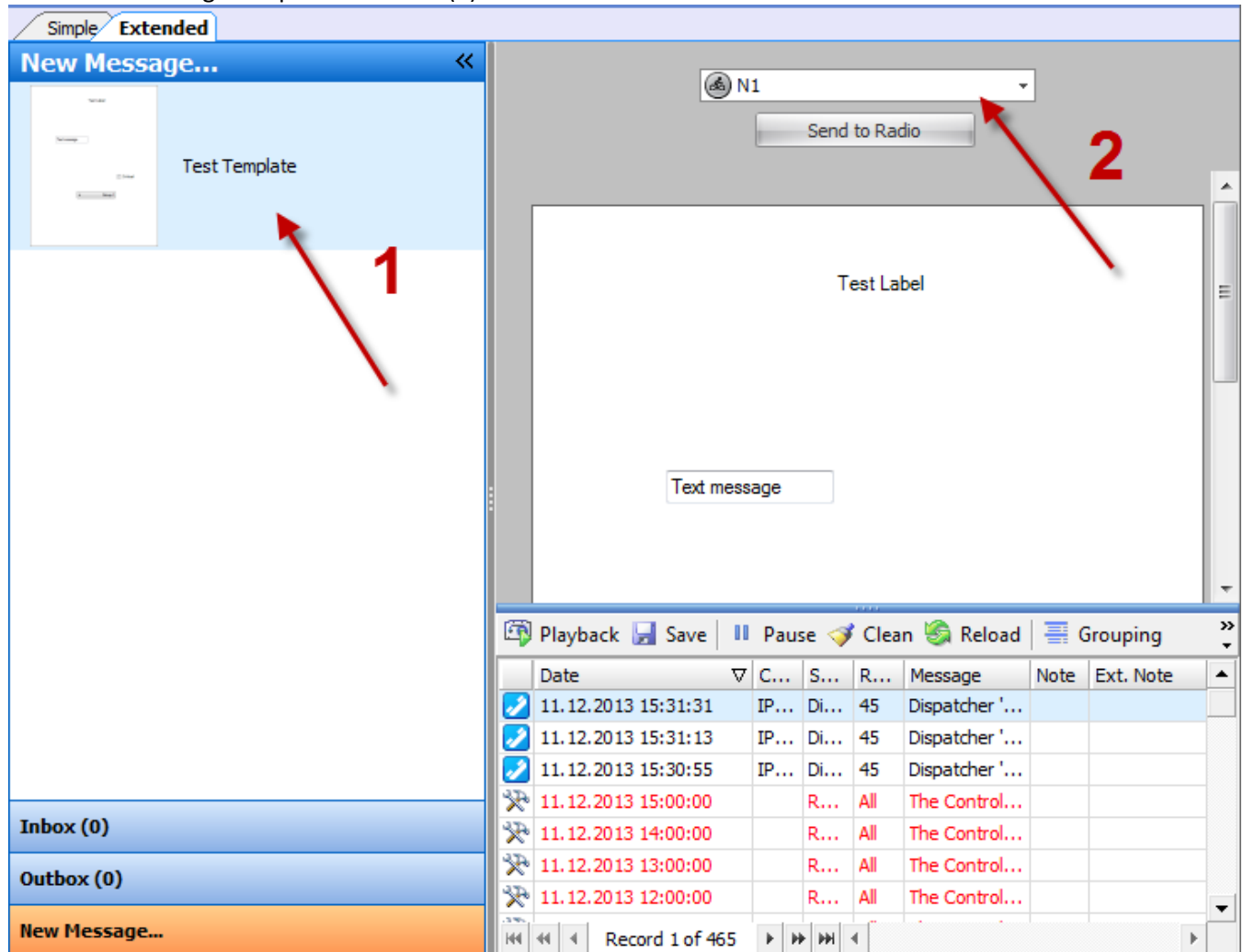


Text Messages (1) View (2)

Select «Show Extended Messages» option.

Go to «Extended Messages» tab (3), **New message** (4).

Select new message template in the list (1):



The screenshot shows the 'New Message...' dialog in the TRBOnet software. On the left, there is a sidebar with a 'Test Template' button, indicated by a red arrow labeled '1'. The main area contains a dropdown menu with 'N1' selected, a 'Send to Radio' button, and a 'Text message' input field. A red arrow labeled '2' points to the 'Send to Radio' button. At the bottom, there is a table of message logs with columns for Date, C..., S..., R..., Message, Note, and Ext. Note. The table shows several entries with timestamps and status indicators.

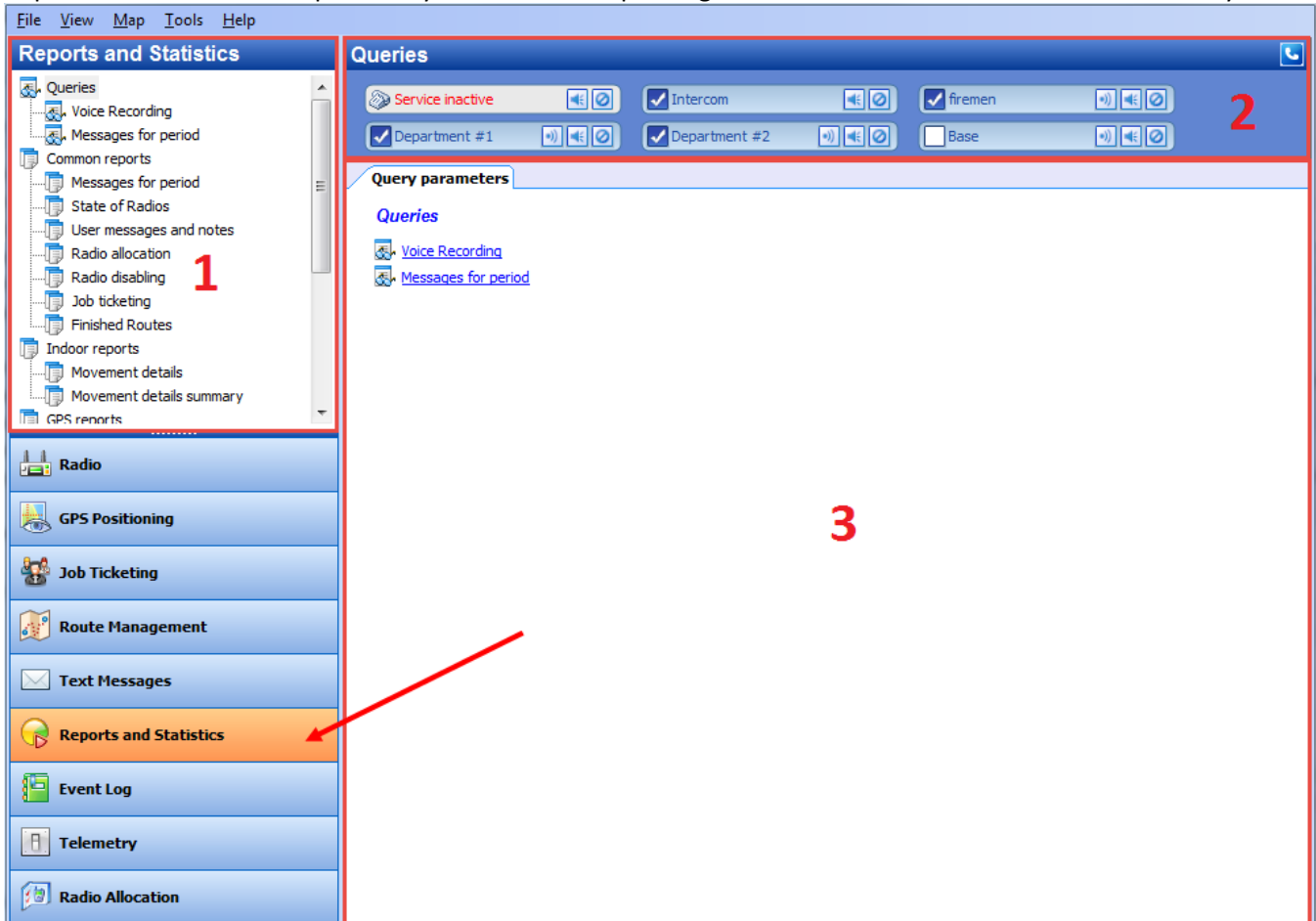
Date	C...	S...	R...	Message	Note	Ext. Note
11.12.2013 15:31:31	IP...	Di...	45	Dispatcher '...		
11.12.2013 15:31:13	IP...	Di...	45	Dispatcher '...		
11.12.2013 15:30:55	IP...	Di...	45	Dispatcher '...		
11.12.2013 15:00:00		R...	All	The Control...		
11.12.2013 14:00:00		R...	All	The Control...		
11.12.2013 13:00:00		R...	All	The Control...		
11.12.2013 12:00:00		R...	All	The Control...		

Select a radio in the dropdown list to send the template (2).
 Click «Send to Radio» button to send the template to a radio.

Note: an offline user will receive the message as soon as one gets online

Reports and Statistics

Reports and Statistics tool provides you with various printing forms with monitored radio network activity data:



- 1 – **Navigation Tree.** Available reports groups are displayed in the Navigation Tree.
- 2 – **Calls Pane.** Radio boxes in minimal mode are displayed in the Calls Pane.
- 3 – **Report Window.** Tabs with report generation settings and report previews.

Report Types Overview

TRBOnet Dispatch Software supports the following report types:

- **Queries** – reports for selected time period with information on Voice Recording and Messages for period displayed as event log (non-printed format).
- **Common Reports** – reports for selected time period with information on messages, radios' state, user messages and notes, Radio Allocation data, Radio disabling data, Job Ticketing and Finished routes in printed format.
- **Indoor reports** - reports for selected time period for movement details for Indoor Positioning in printed format.
- **GPS reports** - reports for selected time period with information on subscribers' location and speed in printed format.
- **Data export** - report for selected time period with information on extended notes, generated on Excel or XML formats.

Main Report Parameters

To generate a report go to Reports and Statistic section and select a report type you want to generate.

When generating a report specify main parameters for a report described below:

Name	Description
Start Date	Date to start the logging
End Date	Date to finish the logging
Channel	Available channels for the logging in the dropdown list. Click « Select All » button to receive report results on all available channels or select channels you want to see the report results manually
Sender (s)	Dispatchers and /or radios you want to see the report results
Recipient (s)	Recipient (s) you want to see the report results. Click « Select All » button to receive report results on all available recipients or select recipients you want to see the report results manually
Radio	Select radios in dropdown list to include selected radios state in the report
Find Text	Type in text to filter the report data. E.g. you can type in Emergency to see report data include Emergency text
Dispatcher	Select « All » to include all dispatchers' data in the report or select dispatcher in the dropdown list
Generate Report	Click to see reports results

Specific Report Details

When generating a report set specific report details:

Name	Included in Report Types	Description
Hide zero length audio message	Voice Recording Messages for Period (Queries and Common Reports section) Extended Notes	Shows audio files with non-zero length only
Message Type	Messages for Period (Queries and Common Reports section)	Select Message types to include in the report: <ul style="list-style-type: none"> • All Messages – all available messages type • Text Messages – text messages from Dispatchers to radios and from radios to Dispatchers • Telemetry – telemetry messages from radioserver to radios and from Radios to radioserver • Talk Sessions – all talk sessions in the system • Registration in radio network – «check radio» commands from repeaters to radios • System Messages – messages about tasks, routes, telemetry statuses, radioserver started/stopped messages, and subscribers' radios configuration. • User Messages – messages created with «Add Message» button. Can be created for all or selected dispatchers and are shown in the Recent Calls\Events tab of dock window.
Print notes	Messages for a period State of Radios	Select to enable notes when printing a report
States	State of Radios	Select available radio events in the dropdown list to display selected data in the report.
Print Location	State of Radios	Select to show in the report selected radios coordinates and to allow its displaying on online Google maps.
Find User messages only	User messages and notes	Select to show only User Messages in the report
Find Messages with notes only	User messages and notes	Select to show only User Messages with notes in the report.
Device	Radio Allocation	Select radios in dropdown list to include selected radios allocation data in the report
User	Radio Allocation	Select «All» to include all radio users' data in the report or select radio users in the dropdown list
Group by	Radio Allocation	Report data can be grouped by radios or by users.

Priority	Job Ticketing	Select Job Tickets priority level to include in the report. Select « All » to include all priority level for Job Tickets in the report or select priority level in the dropdown list
Status	Job Ticketing	Select Job Tickets statuses to include in the report. Select « All » to include all statuses for Job Tickets in the report or select status in the dropdown list
Print detailed data	Finished Routes	Select to see a report in the detailed mode
Beacon	Movement Details/Summary	Select connected beacons in the dropdown list to show finished routes for selected beacons in the report
Min. Interval	Location for period	Minimal Interval to group GPS data
Street names	Location for Period	Select « Not to show » to disable online street view. Select « Online Services » to enable online street view and then select your internet connection type (local or server)
Region	Staying in a region/ Proximity	Select regions to include the data in the report.
Min Stop Time/Stop Borders	Drive Activity Detailed/Summary	Specify Stop Time and Borders and if radio (s) meets requirements, the system fixes selected radio (s) position as stop. E.g. if radio 1 is in a stop borders 100 meters during 50 seconds, it is fixed as a stop in the report.
Show all states	Drive Activity Detailed	Select to show radio drive activity when radio is online and offline.
Automatic correct GPS errors	Drive Activity Detailed/Summary Speed for period	Select the maximum possible speed for your vehicles.
Avg. Interval	Speed for period	Average interval to receive speed data
Speed	Idle Time detailed/Summary	Speed value to detect radios state as idle. In case when speed less than selected value, the system detects radio state as Idle.

Queries

Reports for selected time period with information on Voice Recording and Messages for period displayed as event log (non-printed format).

- **Voice Recording** –a report on all talk sessions in the system for selected time period. The results are displayed in a grid, which allows Dispatcher to filter and sort data.
- **Messages for Period** - a report on activity of radio subscribers and dispatchers for selected time period. Dispatcher can filter the activity to display in the report by message type. For text messages, Dispatcher can also set an additional filter by message text (special characters are supported). The messages are displayed in a grid, which allows Dispatcher to filter and sort data.

Common Reports

Reports for selected time period with information on messages, radios' state, user messages and notes, Radio Allocation data, Radio disabling data, Job Ticketing and Finished routes in printed format.

- **Messages for Period** - a report on activity of radio subscribers and dispatchers for selected time period. Dispatcher can filter the activity to display in the report according by type of message. Dispatcher can set whether to include notes to the report. For text messages, Dispatcher can also set an additional filter by message text (special characters are supported)
- **State of Radios** - a report on registration of subscribers in the network for selected time period.
- **User Messages and Notes** - a report on user messages and notes in the system selected time period. Dispatcher can filter by text and set to find only notes or messages.
- **Radio Allocation** –a report on Radio Allocation users' activity for selected time period.
- **Radio Disabling** - a report on disabling/enabling radios for a selected time period.
- **Job Ticketing** - a report on job tickets assigned to the subscribers.
- **Finished Routes** - a report on finished routes in the system.

Indoor Reports

Reports for selected time period for movement details for Indoor Positioning in printed format.

- **Movement Details** - a report showing time period any radio was in the beacon signal coverage zone;
- **Movement Details Summary** - a report showing how many times the radio entered any beacon signal coverage zone;

GPS Reports

Reports for selected time period with information on subscribers' location and speed in printed format.

- **Location for Period** – a report showing selected radios location data in a time period
- **Staying in a Region / Proximity** – a report showing time period any radio was in the selected map region zone;
- **Drive Activity Detailed** – a report showing all radio (s) events during selected time period
- **Drive Activity Summary** – a report showing total drive and stop time and distance in kilometers for a selected time period
- **Speed for Period** – a report showing radio (s) speed for a selected time period
- **Idle Time Summary** – a total report for Idle Time task for a selected radio(s)
- **Idle Time Details** - a detailed report for Idle Time task for a selected radio(s).

Data Export

Report for selected time period with information on extended notes, generated on Excel or XML formats.

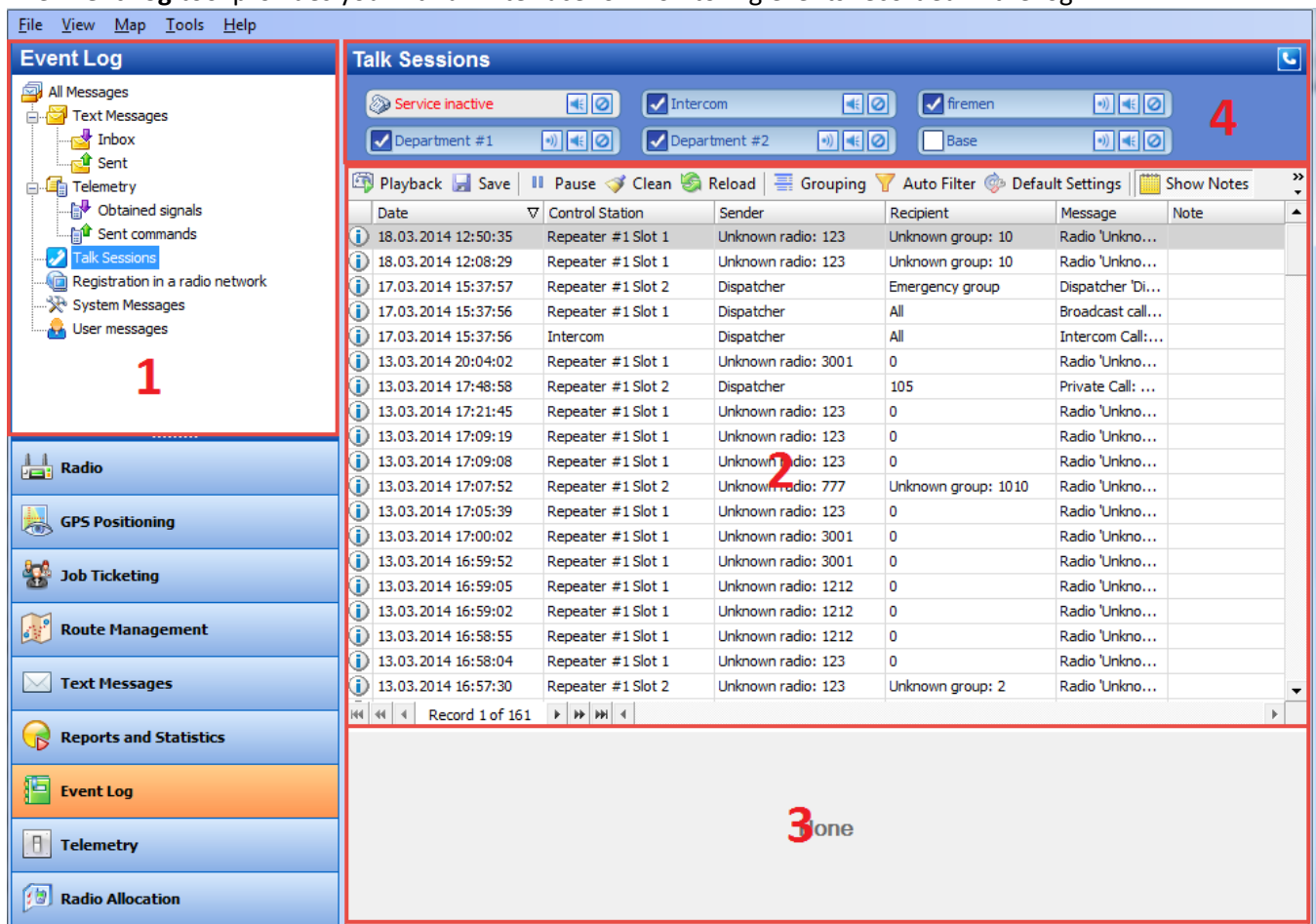
- **Extended Notes** – a report showing extended notes data according to e report filter.

Event log

TRBOnet Dispatch Software retains information on all communicational and system events, including:

- Text Messages
- Telemetry
- Talk Sessions
- Registration in a radio network
- System Messages
- User Messages


The **Event Log** tool provides you with an interface for monitoring events recorded in the log:



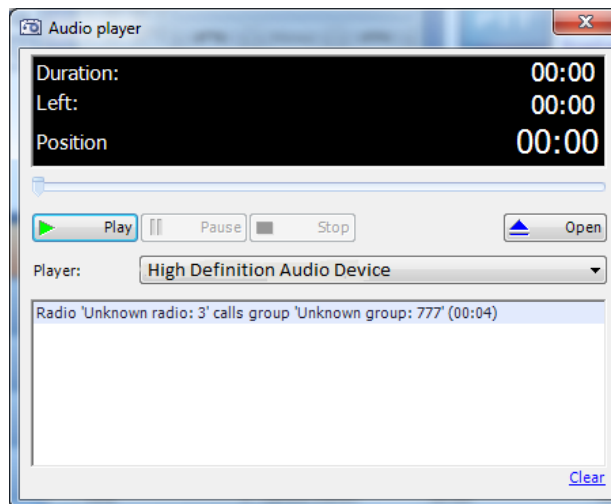
- 1 – Navigation Tree. Displays TRBOnet Dispatch Software event types.
- 2 – Log Window. Displays events list.
- 3 – View Entry panel. Displays details of the log entry Dispatcher select in the log.
- 4 – Calls Pane in compact mode. Allows make a voice calls.

Voice Recording


Note: Voice Recording option available for Talk Sessions only.

1. **To playback selected call** – select the recording you want to playback and click  **Playback** button.


Audio player window appears:




- Open «**Player**» dropdown list to select playback device.
- Click «**Play**» button to playback the recording.
- Click «**Pause**» button to make a pause.
- Click «**Stop**» button to finish recording playback.
- Click «**Open**» button to select new audio file to playback.

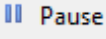
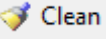
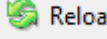
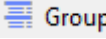
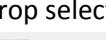
Note: you can playback several recordings. Hold «**Ctrl**» key and select recordings you want to playback. Then click  **Playback** button.

2. **Save** – Dispatcher can save the recordings.

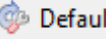
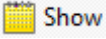
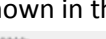
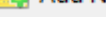
To save a number of recordings as individual files select recordings you want to save (use «**Ctrl**» key) click  **Save** button and select **Save Selection as Individual Files**. Then specify a folder on the local PC to save recordings as separated audio files.

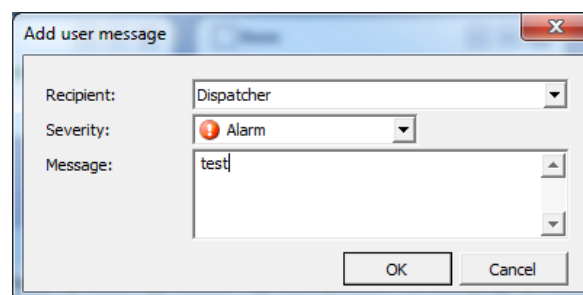
To save a number of recordings as single file select recordings you want to save (use «**Ctrl**» key) click  **Save** button and select **Save Selection as Single File**. Then specify a folder on the local PC to save recordings as single audio file.

Event Log Controls

7. Click  **Pause** button to pause Events log updating
8. Click  **Clean** button to hide Events log records. Click  **Reload** to show all log records.
9. Click  **Grouping** button to group log records. Select column you want to group log records by. Drag and drop selected column header in the Grouping field.
10. Click  **Auto Filter** button to set filter for log events. You can filter Events by any parameter. E.g. to filter by selected sender select «**Sender**» column (1) and type in sender name (2) to filter the data:

Playback	Save	Pause	Clean	Reload	Grouping	Auto Filter	Default Settings	Show Notes	Add Note	>>
Date	Sender	Recipient	Message	Note						
	Dispatcher									
24.03.2014 14:18:00	Dispatcher	105	test							
24.03.2014 14:05:30	Dispatcher	All	Alarm!							
24.03.2014 14:05:30	Dispatcher	All	Alarm!							
24.03.2014 14:05:14	Dispatcher	Department 1	Alarm							
24.03.2014 13:59:44	Dispatcher	105	test message							

11. Click  **Default Settings** button to apply default settings to all log records.
12. Click  **Show Notes** button to enable **Note** column. All notes added by Administrator and Dispatchers are shown in the Notes column. So, you can mark events to find it by notes.
13. Click  **Add Note** button to add a note for selected recording and/or event. The note will be displayed in the Events log if «**Show Notes**» mode enabled.
14. Click  **Add Message** button to add message for Dispatchers in the Events log.



The dialog box titled "Add user message" contains the following fields:

- Recipient:** A dropdown menu with "Dispatcher" selected.
- Severity:** A dropdown menu with "Alarm" selected.
- Message:** A text area containing the text "test".

At the bottom right, there are "OK" and "Cancel" buttons.

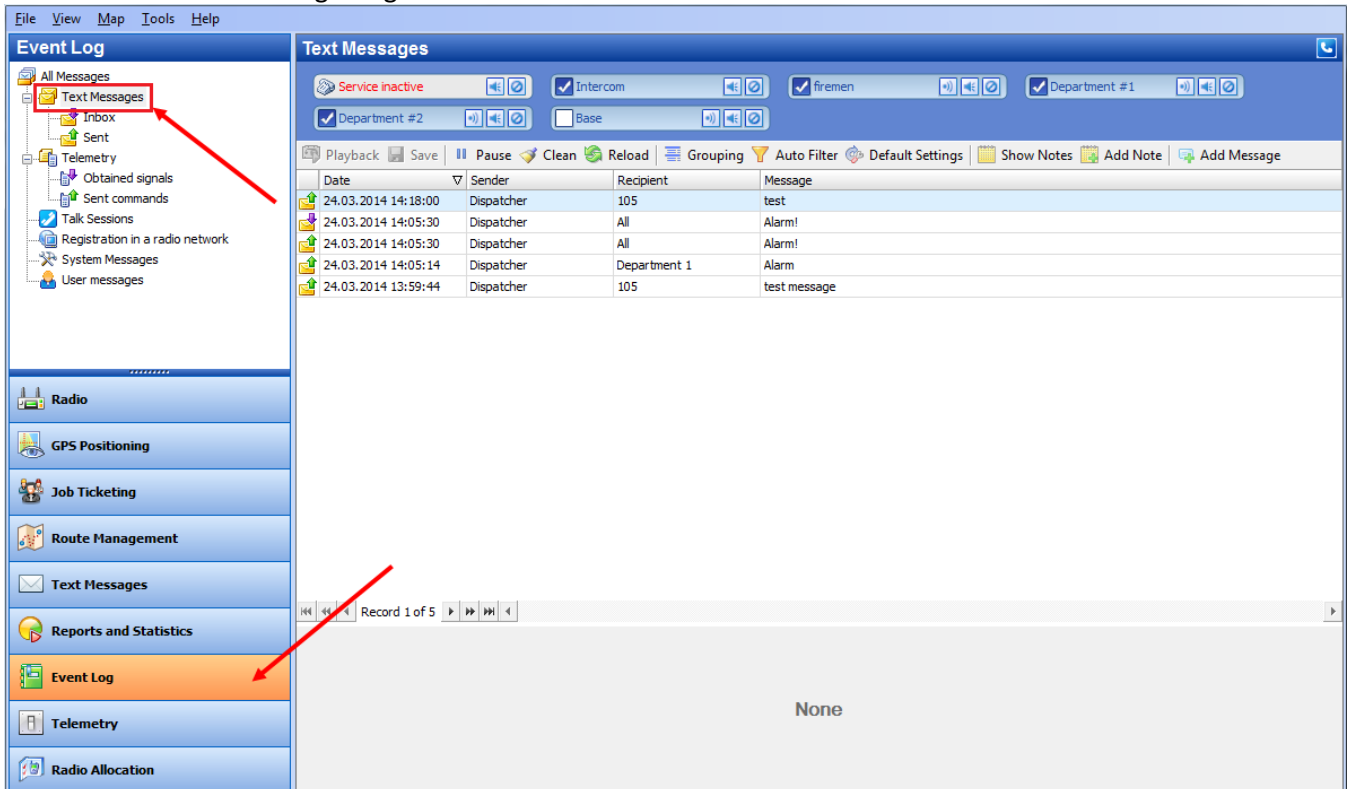
- **Recipient** – select All if you want all Dispatchers to see the message
- **Severity** – select severity level to inform Dispatchers about message severity.

Type in message text. Selected Dispatcher or all Dispatchers registered in the system will see the message in the Recent Calls \ Events tab.

All Messages



Text Messages

Dispatcher can monitor all text messages in the system. Select **Text Messages** in the navigation tree to view inbox and sent text messages log:



Date	Sender	Recipient	Message
24.03.2014 14:18:00	Dispatcher	105	test
24.03.2014 14:05:30	Dispatcher	All	Alarm!
24.03.2014 14:05:30	Dispatcher	All	Alarm!
24.03.2014 14:05:14	Dispatcher	Department 1	Alarm
24.03.2014 13:59:44	Dispatcher	105	test message

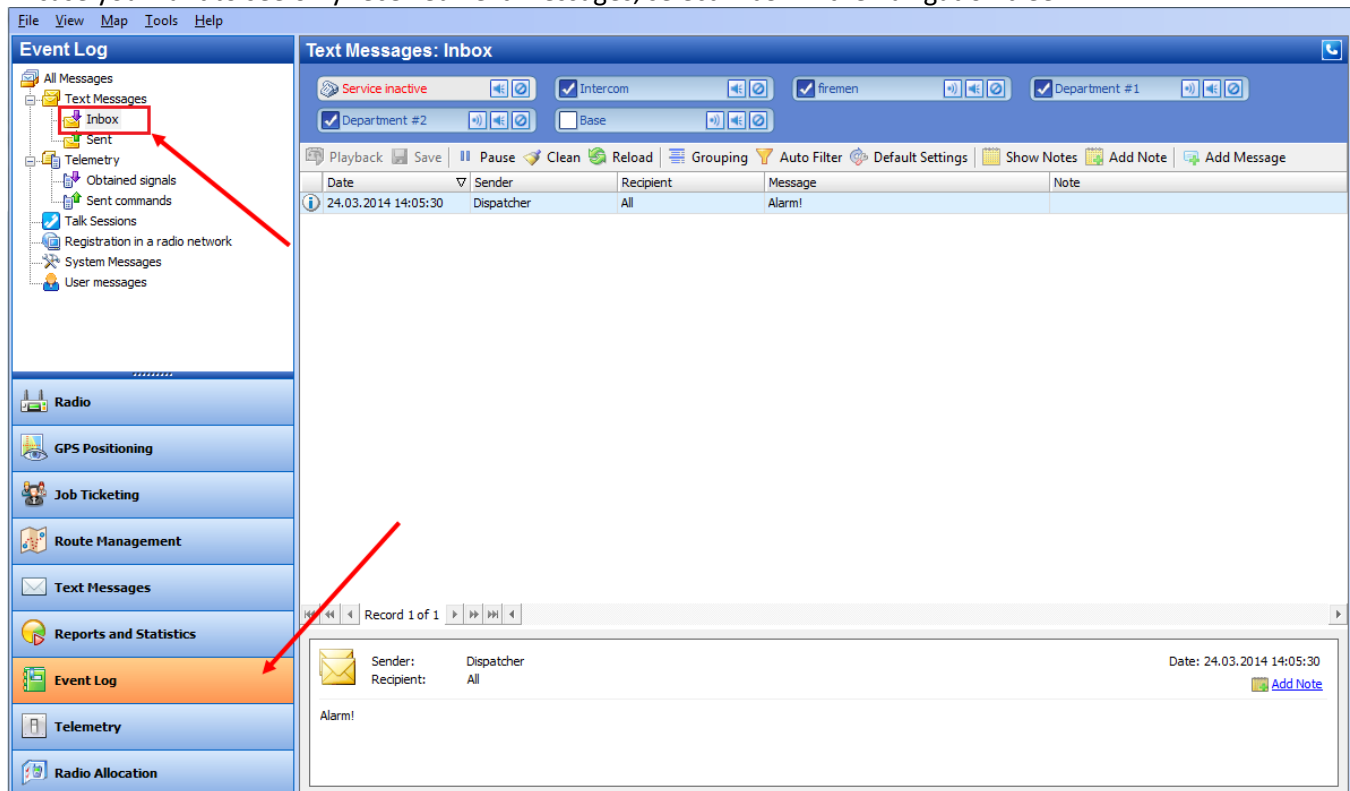
The following Text Messages details are represented in the Event log:

-  - inbox text messages.  - sent text messages.
- Date and precise time when the message was sent or received
- Text Message Sender
- Text Message Recipient
- Message text.

Go to [Event Log Controls](#) section to manage event log items.

Inbox Text Messages

In case you want to see only received Text Messages, select **Inbox** in the navigation tree:



Text Messages: Inbox

Service inactive | Intercom | firemen | Department #1 | Department #2 | Base

Playback | Save | Pause | Clean | Reload | Grouping | Auto Filter | Default Settings | Show Notes | Add Note | Add Message

Date	Sender	Recipient	Message	Note
24.03.2014 14:05:30	Dispatcher	All	Alarm!	

Record 1 of 1

Sender: Dispatcher
 Recipient: All
 Date: 24.03.2014 14:05:30
 Alarm!
[Add Note](#)

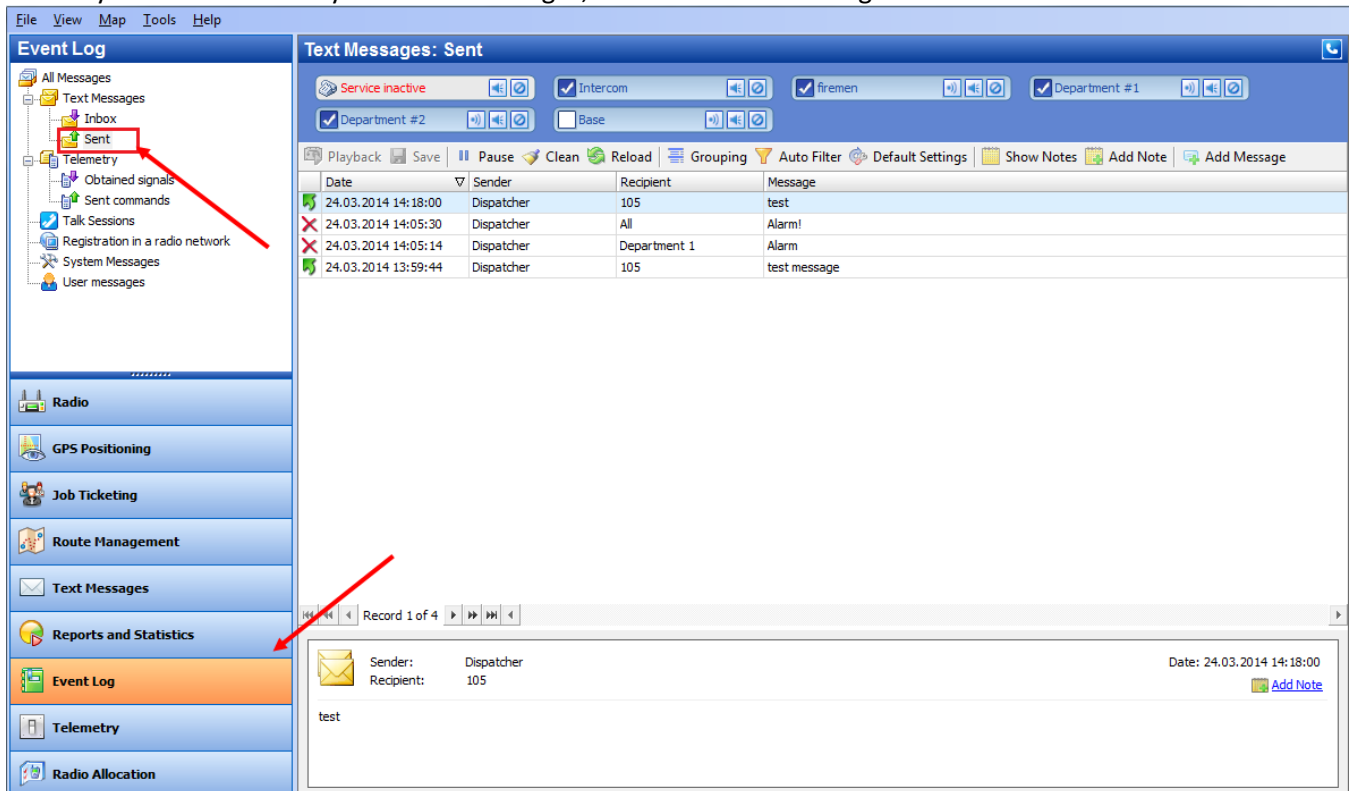
The following Text Messages details are represented in the Event log:

- Date and precise time when the message was received
- Text Message Sender
- Text Message Recipient
- Message text.

Go to [Event Log Controls](#) section to manage event log items.

Sent Text Messages

In case you want to see only sent Text Messages, select **Sent** in the navigation tree:





The screenshot shows the TRBOnet interface with the 'Sent' filter selected in the navigation tree. The main window displays a list of sent text messages with the following columns: Date, Sender, Recipient, and Message.

Date	Sender	Recipient	Message
24.03.2014 14:18:00	Dispatcher	105	test
24.03.2014 14:05:30	Dispatcher	All	Alarm!
24.03.2014 14:05:14	Dispatcher	Department 1	Alarm
24.03.2014 13:59:44	Dispatcher	105	test message

Below the table, a detailed view of a message is shown for the record 'Record 1 of 4'. It displays the message text 'test' and includes fields for Sender (Dispatcher), Recipient (105), and Date (24.03.2014 14:18:00). There is also an 'Add Note' link.

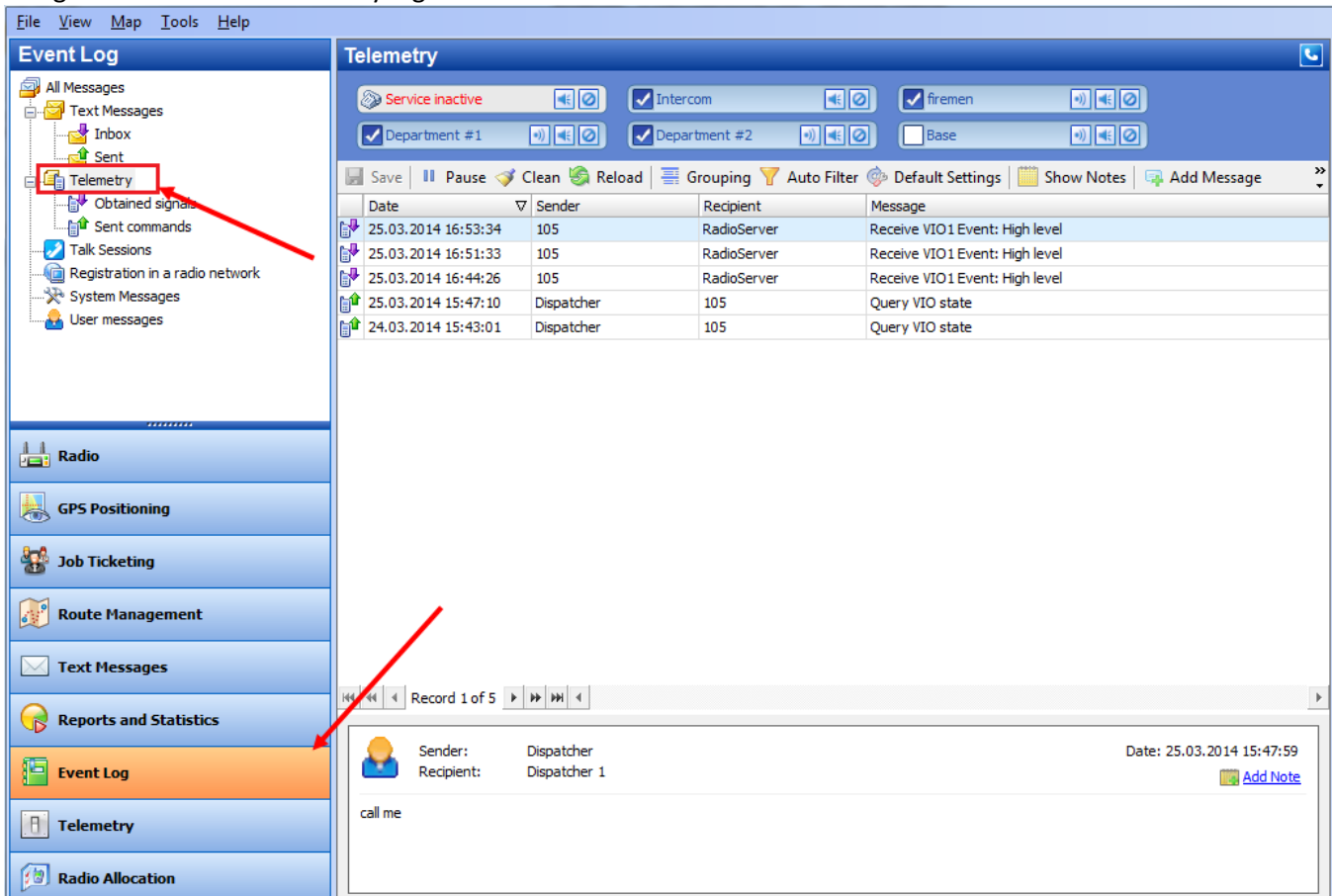
The following Text Messages details are represented in the Event log:

-  - text message successfully delivered;  - text message is not delivered (radio offline or out of radioserver coverage area)
- Date and precise time when the message was sent
- Text Message Sender
- Text Message Recipient
- Message text.

Go to [Event Log Controls](#) section to manage event log items.

Telemetry

Dispatcher can monitor obtained telemetry signals and sent telemetry commands. Select Telemetry in the navigation tree to see telemetry log:



Event Log

- All Messages
 - Text Messages
 - Inbox
 - Sent
 - Telemetry**
 - Obtained signals
 - Sent commands
- Talk Sessions
- Registration in a radio network
- System Messages
- User messages

Radio

GPS Positioning

Job Ticketing

Route Management

Text Messages

Reports and Statistics

Event Log

Telemetry

Radio Allocation

Telemetry

Service inactive | Intercom | firemen | Department #1 | Department #2 | Base

Save | Pause | Clean | Reload | Grouping | Auto Filter | Default Settings | Show Notes | Add Message



Date	Sender	Recipient	Message
25.03.2014 16:53:34	105	RadioServer	Receive VIO1 Event: High level
25.03.2014 16:51:33	105	RadioServer	Receive VIO1 Event: High level
25.03.2014 16:44:26	105	RadioServer	Receive VIO1 Event: High level
25.03.2014 15:47:10	Dispatcher	105	Query VIO state
24.03.2014 15:43:01	Dispatcher	105	Query VIO state

Record 1 of 5

Sender: Dispatcher
 Recipient: Dispatcher 1
 Date: 25.03.2014 15:47:59
 Add Note

call me

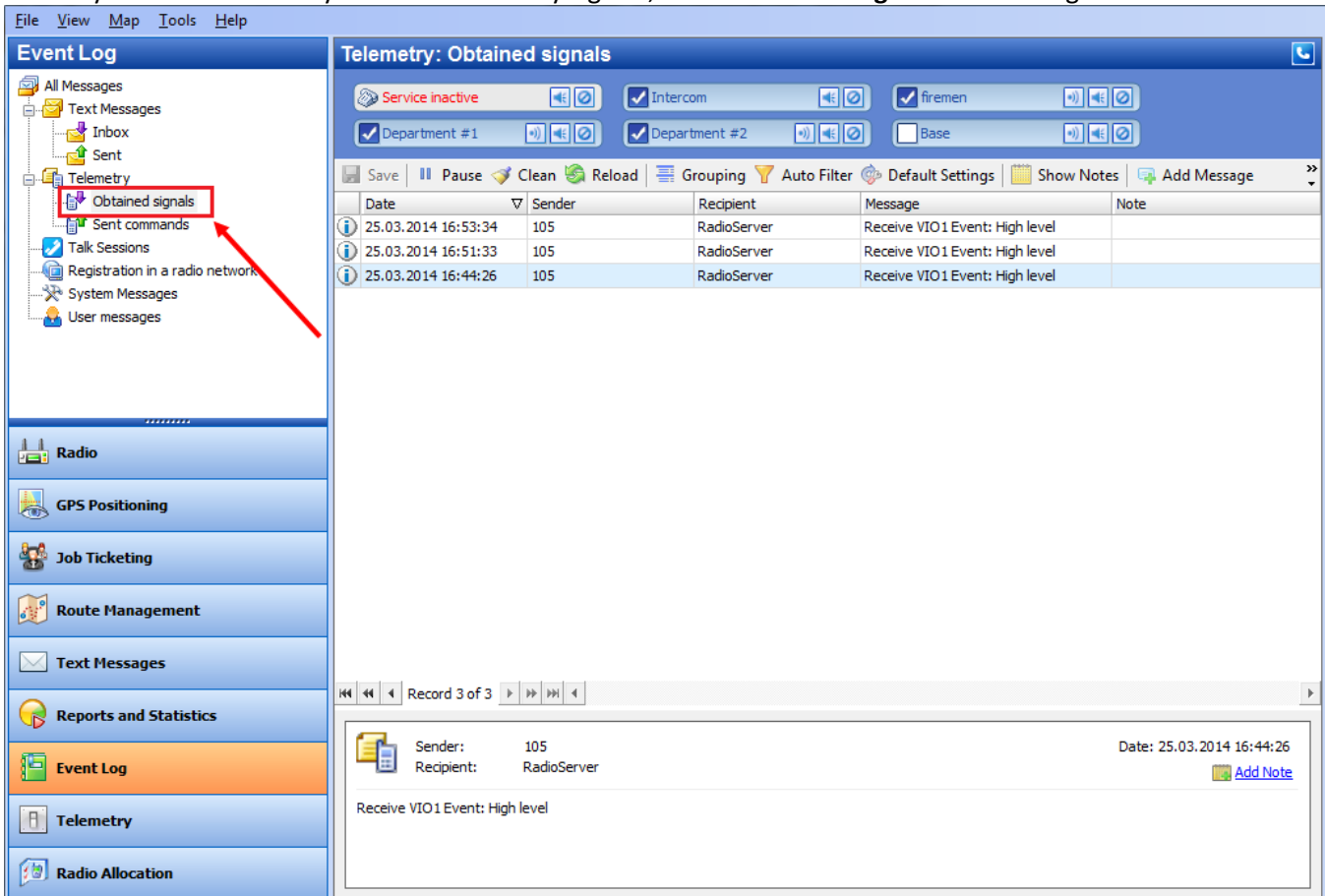
The following Text Messages details are represented in the Event log:

-  - obtained telemetry signals  - sent text messages.
- Date and precise time when the telemetry was sent or received
- Telemetry Sender
- Telemetry Recipient
- Telemetry details.

Go to [Event Log Controls](#) section to manage event log items.

Obtained Signals

In case you want to see only received telemetry signals, select **Obtained signals** in the navigation tree:






The screenshot shows the TRBOnet software interface. On the left, the 'Event Log' navigation tree is expanded, and 'Obtained signals' is highlighted with a red box and an arrow. The main window displays 'Telemetry: Obtained signals' with a table of received signals.

Date	Sender	Recipient	Message	Note
25.03.2014 16:53:34	105	RadioServer	Receive VIO1 Event: High level	
25.03.2014 16:51:33	105	RadioServer	Receive VIO1 Event: High level	
25.03.2014 16:44:26	105	RadioServer	Receive VIO1 Event: High level	

Below the table, a detailed view of the selected record is shown:

Sender: 105
 Recipient: RadioServer
 Date: 25.03.2014 16:44:26
 Receive VIO1 Event: High level
[Add Note](#)

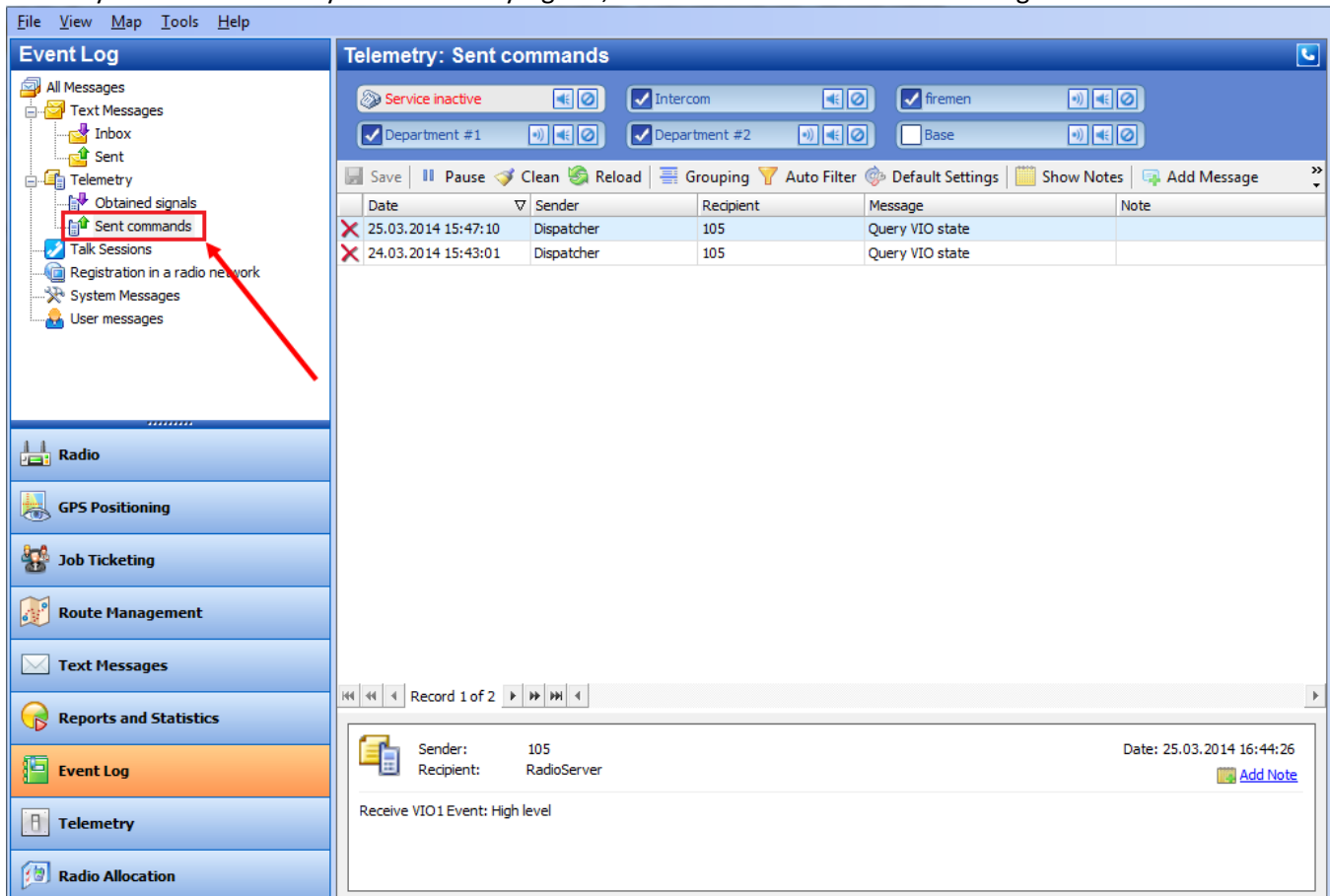
The following Text Messages details are represented in the Event log:

- Severity level:  - information message,  - warning message,  - alarm message
- Date and precise time when the telemetry was sent or received
- Telemetry Sender
- Telemetry Recipient
- Telemetry details.

Go to [Event Log Controls](#) section to manage event log items.

Sent Commands

In case you want to see only sent telemetry signals, select **Sent Commands** in the navigation tree:



Event Log

- All Messages
 - Text Messages
 - Inbox
 - Sent
 - Telemetry
 - Obtained signals
 - Sent commands**
 - Talk Sessions
 - Registration in a radio network
 - System Messages
 - User messages

Telemetry: Sent commands

Service inactive | Intercom | firemen | Department #1 | Department #2 | Base



Save | Pause | Clean | Reload | Grouping | Auto Filter | Default Settings | Show Notes | Add Message

Date	Sender	Recipient	Message	Note
25.03.2014 15:47:10	Dispatcher	105	Query VIO state	
24.03.2014 15:43:01	Dispatcher	105	Query VIO state	

Record 1 of 2

Sender: 105
 Recipient: RadioServer
 Date: 25.03.2014 16:44:26
 Receive VIO1 Event: High level

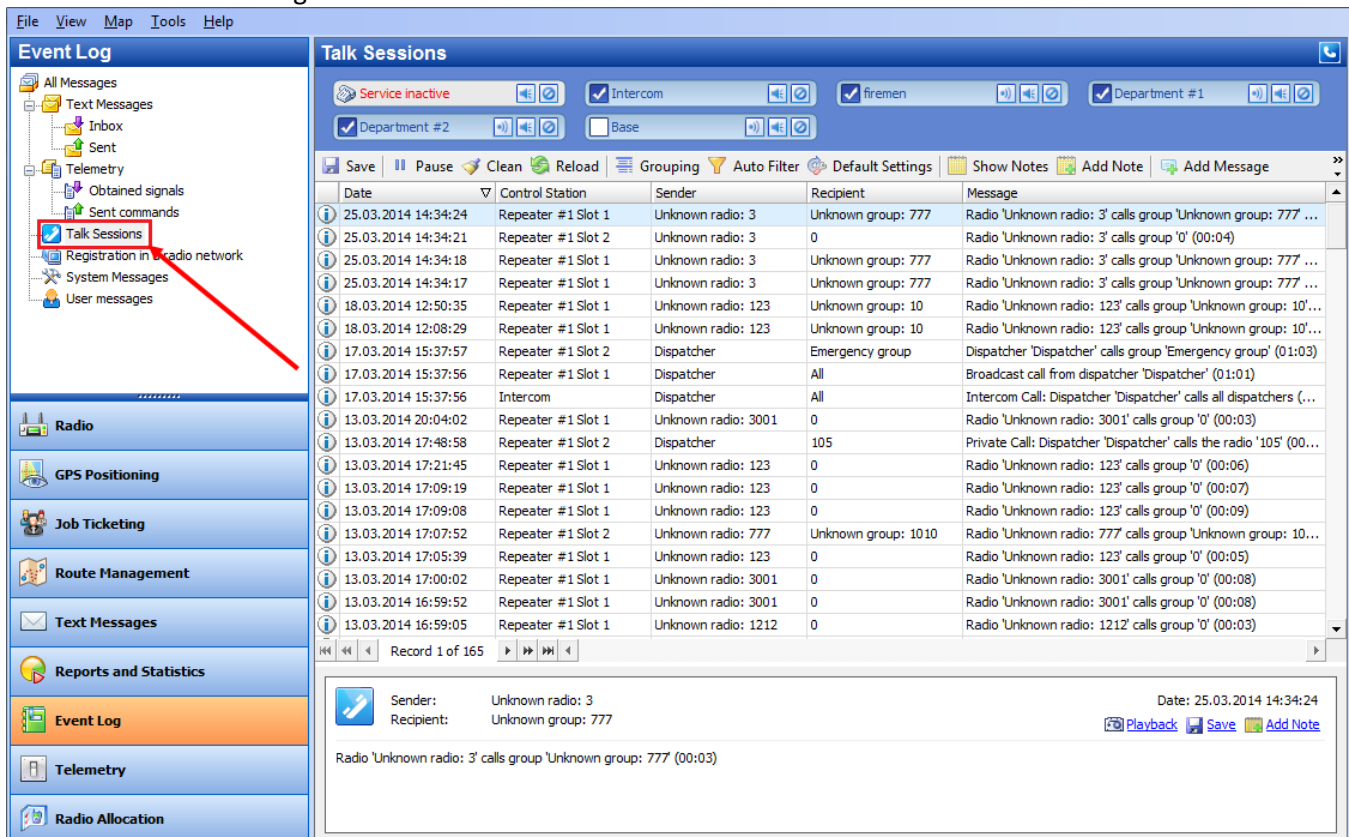
The following telemetry details are represented in the Event log:

-  - telemetry successfully delivered;  - telemetry is not delivered (radio offline or out of radioserver coverage area)
- Date and precise time when telemetry was sent
- Telemetry Sender
- Telemetry Recipient
- Telemetry details.

Go to [Event Log Controls](#) section to manage event log items.

Talk Sessions

Dispatcher can monitor all Talk sessions in the system. Select **Talk Sessions** in the navigation tree to view inbox and sent talk sessions log:



Event Log

- All Messages
 - Text Messages
 - Inbox
 - Sent
 - Telemetry
 - Obtained signals
 - Sent commands
 - Talk Sessions**
 - Registration in radio network
 - System Messages
 - User messages
- Radio
- GPS Positioning
- Job Ticketing
- Route Management
- Text Messages
- Reports and Statistics
- Event Log
- Telemetry
- Radio Allocation

Talk Sessions

Service inactive | Intercom | firemen | Department #1 | Department #2 | Base

Save | Pause | Clean | Reload | Grouping | Auto Filter | Default Settings | Show Notes | Add Note | Add Message

Date	Control Station	Sender	Recipient	Message
25.03.2014 14:34:24	Repeater #1 Slot 1	Unknown radio: 3	Unknown group: 777	Radio 'Unknown radio: 3' calls group 'Unknown group: 777 ...
25.03.2014 14:34:21	Repeater #1 Slot 2	Unknown radio: 3	0	Radio 'Unknown radio: 3' calls group '0' (00:04)
25.03.2014 14:34:18	Repeater #1 Slot 1	Unknown radio: 3	Unknown group: 777	Radio 'Unknown radio: 3' calls group 'Unknown group: 777 ...
25.03.2014 14:34:17	Repeater #1 Slot 1	Unknown radio: 3	Unknown group: 777	Radio 'Unknown radio: 3' calls group 'Unknown group: 777 ...
18.03.2014 12:50:35	Repeater #1 Slot 1	Unknown radio: 123	Unknown group: 10	Radio 'Unknown radio: 123' calls group 'Unknown group: 10'...
18.03.2014 12:08:29	Repeater #1 Slot 1	Unknown radio: 123	Unknown group: 10	Radio 'Unknown radio: 123' calls group 'Unknown group: 10'...
17.03.2014 15:37:57	Repeater #1 Slot 2	Dispatcher	Emergency group	Dispatcher 'Dispatcher' calls group 'Emergency group' (01:03)
17.03.2014 15:37:56	Repeater #1 Slot 1	Dispatcher	All	Broadcast call from dispatcher 'Dispatcher' (01:01)
17.03.2014 15:37:56	Intercom	Dispatcher	All	Intercom Call: Dispatcher 'Dispatcher' calls all dispatchers (...)
13.03.2014 20:04:02	Repeater #1 Slot 1	Unknown radio: 3001	0	Radio 'Unknown radio: 3001' calls group '0' (00:03)
13.03.2014 17:48:58	Repeater #1 Slot 2	Dispatcher	105	Private Call: Dispatcher 'Dispatcher' calls the radio '105' (00:...
13.03.2014 17:21:45	Repeater #1 Slot 1	Unknown radio: 123	0	Radio 'Unknown radio: 123' calls group '0' (00:06)
13.03.2014 17:09:19	Repeater #1 Slot 1	Unknown radio: 123	0	Radio 'Unknown radio: 123' calls group '0' (00:07)
13.03.2014 17:09:08	Repeater #1 Slot 1	Unknown radio: 123	0	Radio 'Unknown radio: 123' calls group '0' (00:09)
13.03.2014 17:07:52	Repeater #1 Slot 2	Unknown radio: 777	Unknown group: 1010	Radio 'Unknown radio: 777' calls group 'Unknown group: 10...
13.03.2014 17:05:39	Repeater #1 Slot 1	Unknown radio: 123	0	Radio 'Unknown radio: 123' calls group '0' (00:05)
13.03.2014 17:00:02	Repeater #1 Slot 1	Unknown radio: 3001	0	Radio 'Unknown radio: 3001' calls group '0' (00:08)
13.03.2014 16:59:52	Repeater #1 Slot 1	Unknown radio: 3001	0	Radio 'Unknown radio: 3001' calls group '0' (00:08)
13.03.2014 16:59:05	Repeater #1 Slot 1	Unknown radio: 1212	0	Radio 'Unknown radio: 1212' calls group '0' (00:03)

Record 1 of 165

Sender: Unknown radio: 3
 Recipient: Unknown group: 777
 Date: 25.03.2014 14:34:24
 Playback | Save | Add Note

Radio 'Unknown radio: 3' calls group 'Unknown group: 777 (00:03)

The following Talk Sessions details are represented in the Event log:

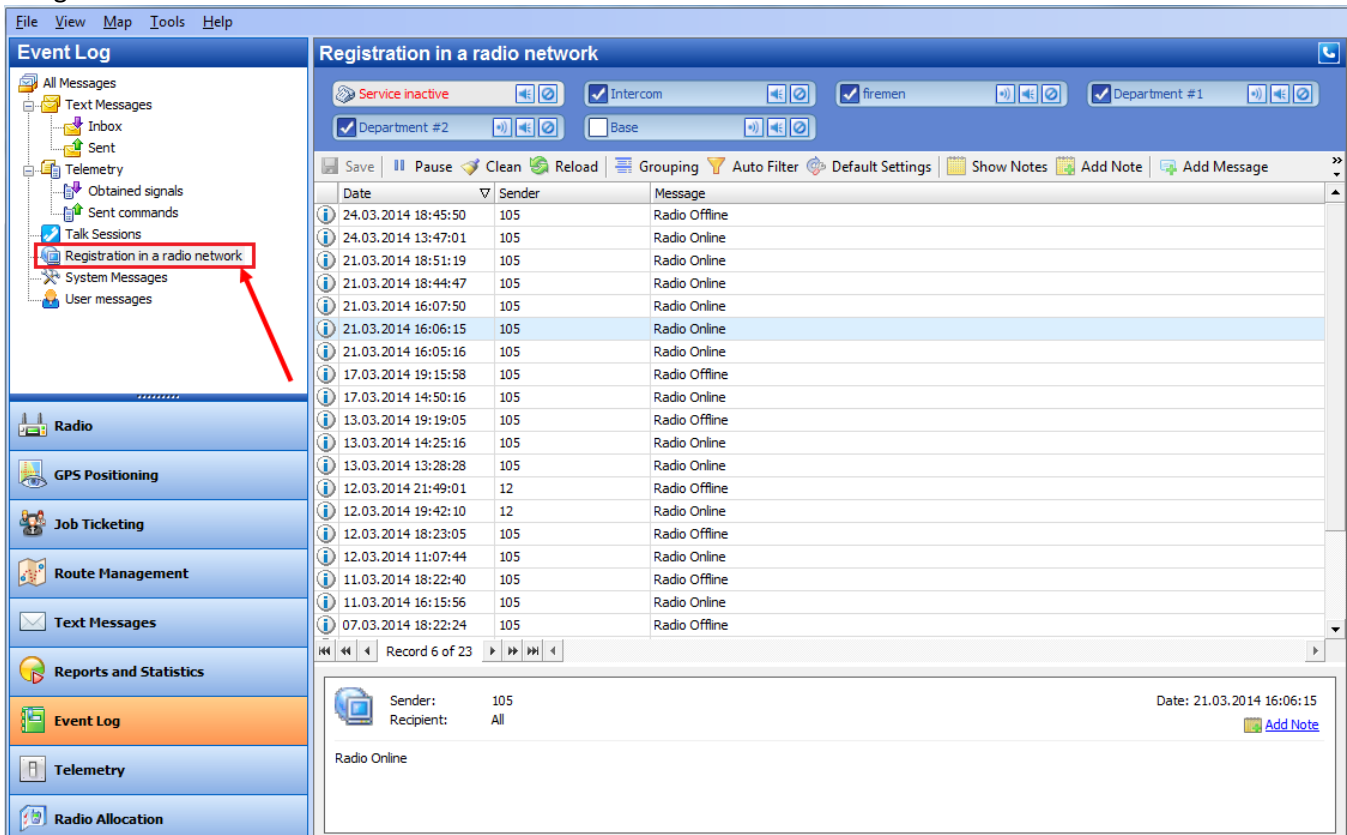
- Date and precise time of the Voice Call
- Control Station
- Voice Call Sender
- Voice Call Recipient
- Voice Call duration

Go to [Voice Recording](#) section to save and to playback voice call (s).

Go to [Event Log Controls](#) section to manage event log items.

Registration in Radio Network

Dispatcher can monitor when any radio was online/offline. Select **Registration in radio network** in the navigation tree:



Registration in a radio network

Service inactive | Intercom | firemen | Department #1 | Department #2 | Base

Save | Pause | Clean | Reload | Grouping | Auto Filter | Default Settings | Show Notes | Add Note | Add Message

Date	Sender	Message
24.03.2014 18:45:50	105	Radio Offline
24.03.2014 13:47:01	105	Radio Online
21.03.2014 18:51:19	105	Radio Online
21.03.2014 18:44:47	105	Radio Online
21.03.2014 16:07:50	105	Radio Online
21.03.2014 16:06:15	105	Radio Online
21.03.2014 16:05:16	105	Radio Online
17.03.2014 19:15:58	105	Radio Offline
17.03.2014 14:50:16	105	Radio Online
13.03.2014 19:19:05	105	Radio Offline
13.03.2014 14:25:16	105	Radio Online
13.03.2014 13:28:28	105	Radio Online
12.03.2014 21:49:01	12	Radio Offline
12.03.2014 19:42:10	12	Radio Online
12.03.2014 18:23:05	105	Radio Offline
12.03.2014 11:07:44	105	Radio Online
11.03.2014 18:22:40	105	Radio Offline
11.03.2014 16:15:56	105	Radio Online
07.03.2014 18:22:24	105	Radio Offline

Record 6 of 23

Sender: 105
 Recipient: All
 Date: 21.03.2014 16:06:15
 Add Note

Radio Online

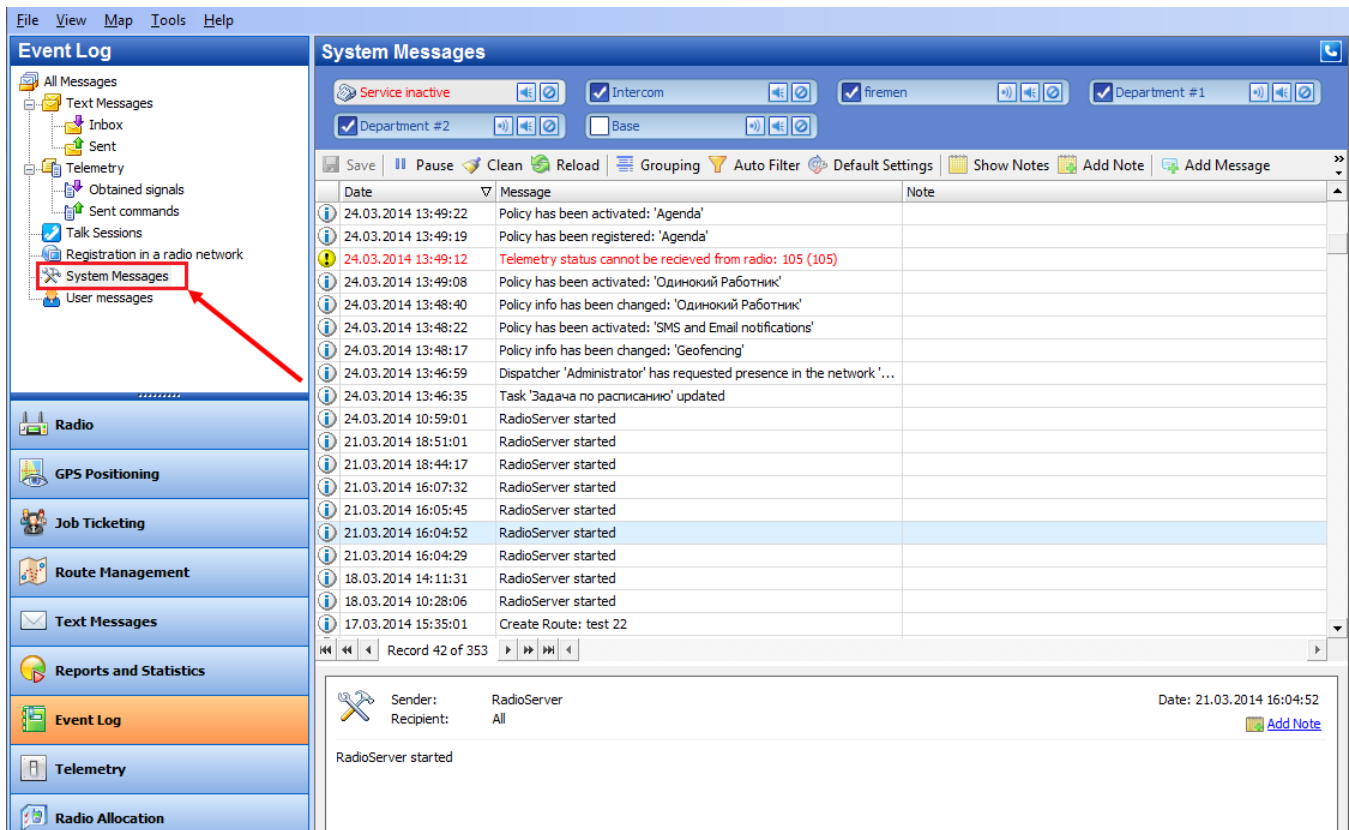
The following radios details are represented in the Event log:

- Date and precise time of «Check Radio» command
- «Check Radio» command Sender
- Message (Radio online/offline)

Go to [Event Log Controls](#) section to manage event log items.

System Messages

Dispatcher can monitor when any system messages in the system. Select **System Messages** in the navigation tree:



System Messages

Service inactive | Intercom | firemen | Department #1 | Department #2 | Base

Save | Pause | Clean | Reload | Grouping | Auto Filter | Default Settings | Show Notes | Add Note | Add Message

Date	Message	Note
24.03.2014 13:49:22	Policy has been activated: 'Agenda'	
24.03.2014 13:49:19	Policy has been registered: 'Agenda'	
24.03.2014 13:49:12	Telemetry status cannot be recieved from radio: 105 (105)	
24.03.2014 13:49:08	Policy has been activated: 'Одинокий Работник'	
24.03.2014 13:48:40	Policy info has been changed: 'Одинокий Работник'	
24.03.2014 13:48:22	Policy has been activated: 'SMS and Email notifications'	
24.03.2014 13:48:17	Policy info has been changed: 'Geofencing'	
24.03.2014 13:46:59	Dispatcher 'Administrator' has requested presence in the network '...	
24.03.2014 13:46:35	Task 'Задача по расписанию' updated	
24.03.2014 10:59:01	RadioServer started	
21.03.2014 18:51:01	RadioServer started	
21.03.2014 18:44:17	RadioServer started	
21.03.2014 16:07:32	RadioServer started	
21.03.2014 16:05:45	RadioServer started	
21.03.2014 16:04:52	RadioServer started	
21.03.2014 16:04:29	RadioServer started	
18.03.2014 14:11:31	RadioServer started	
18.03.2014 10:28:06	RadioServer started	
17.03.2014 15:35:01	Create Route: test 22	

Record 42 of 353




Sender: RadioServer
 Recipient: All
 Date: 21.03.2014 16:04:52
 Add Note

RadioServer started

The following system messages are represented in the Event log:

- RadioServer started/stopped
- Any tasks policy was activated/changed
- Telemetry cannot be received from any radio
- Any route was created/updated
- Dispatcher requested radio's presence in the network
- Subscriber radio registration/changing
- New group registration/changing
- CrossPatch enabled/disabled, etc.

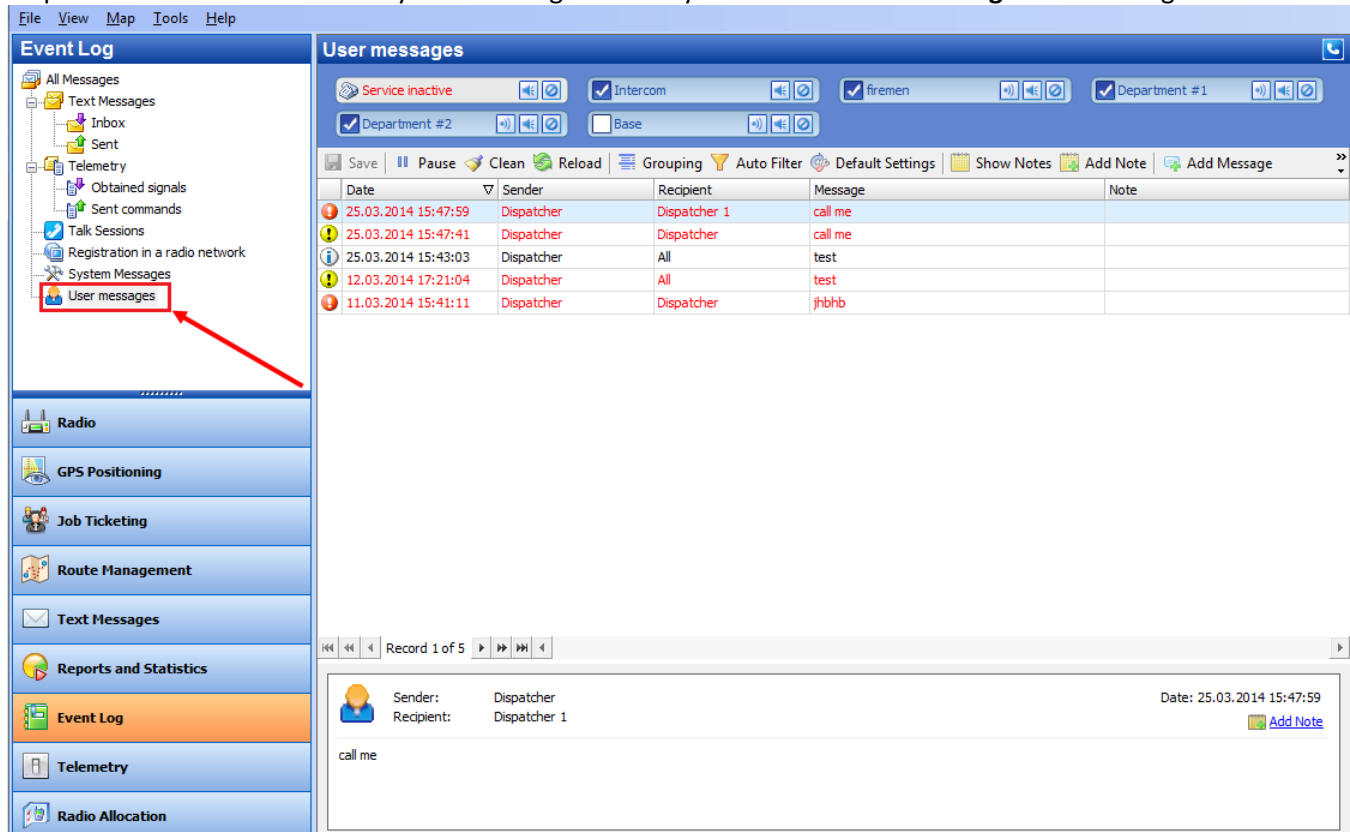
The following system messages details are represented in the Event log:

- Severity level:  - information message,  - warning message,  - alarm message
- Date and precise time of the system message
- Message text

Go to [Event Log Controls](#) section to manage event log items.




User Messages

Dispatcher can monitor when any user messages in the system. Select **User Messages** in the navigation tree:



Date	Sender	Recipient	Message	Note
25.03.2014 15:47:59	Dispatcher	Dispatcher 1	call me	
25.03.2014 15:47:41	Dispatcher	Dispatcher	call me	
25.03.2014 15:43:03	Dispatcher	All	test	
12.03.2014 17:21:04	Dispatcher	All	test	
11.03.2014 15:41:11	Dispatcher	Dispatcher	jhbhb	

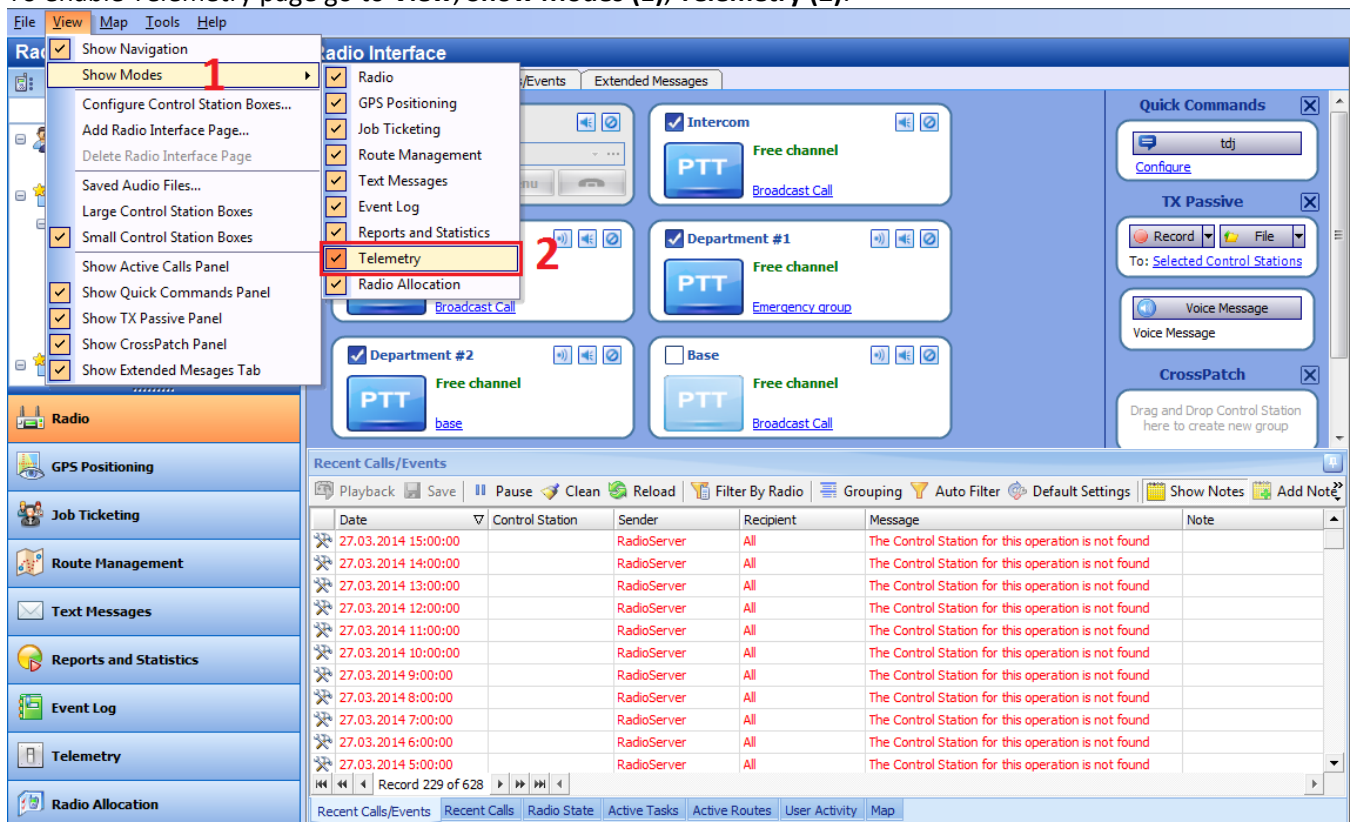
The following system messages details are represented in the Event log:

- Severity level:  - information message,  - warning message,  - alarm message
- Date and precise time of the user message
- User message Sender
- User message Recipient
- User message text

Go to [Event Log Controls](#) section to manage event log items.

Telemetry

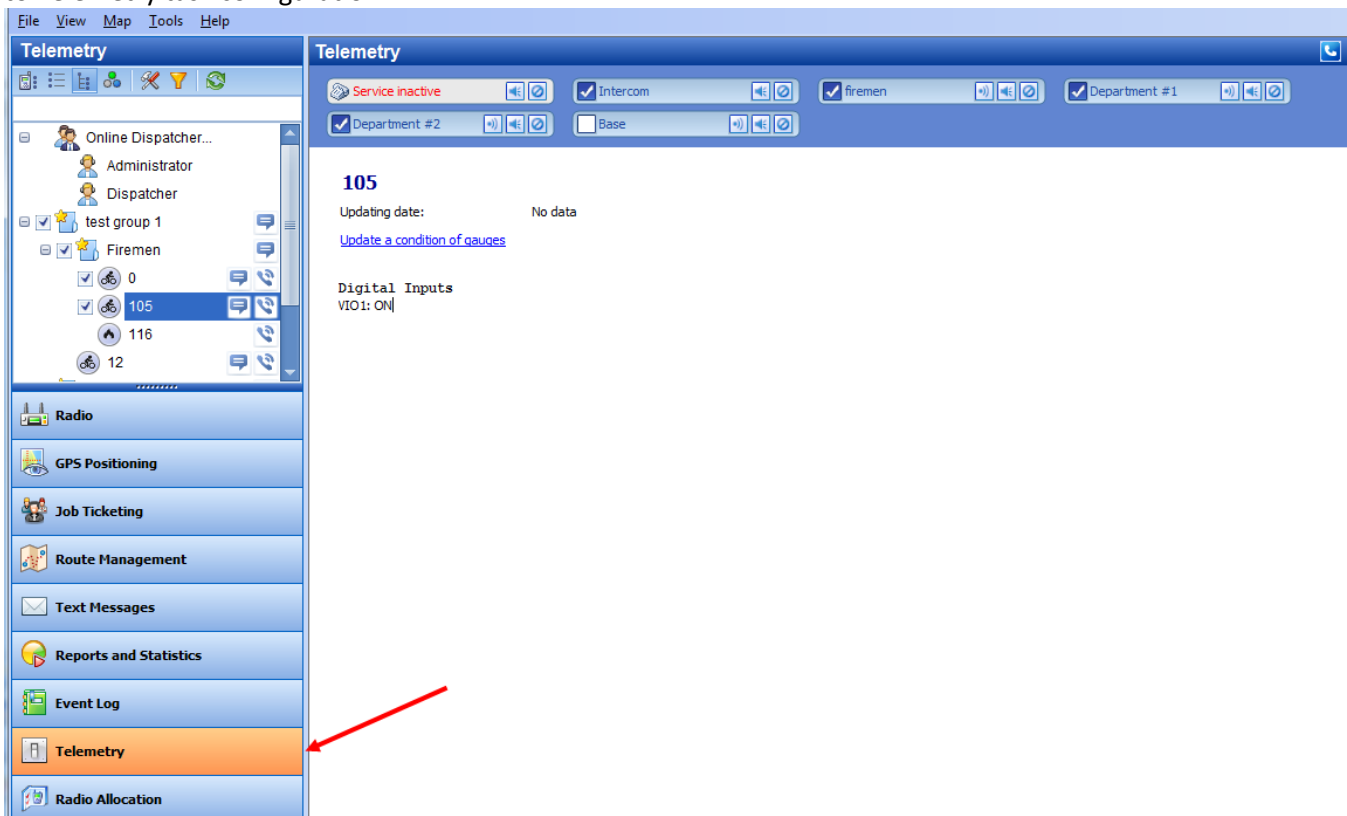
To enable Telemetry page go to **View, Show Modes (1), Telemetry (2):**



The screenshot shows the TRBOnet software interface. The 'View' menu is open, and the 'Show Modes' option is highlighted with a red box and the number '1'. The 'Telemetry' option is also highlighted with a red box and the number '2'. The interface includes a sidebar with various modules like Radio, GPS Positioning, Job Ticketing, Route Management, Text Messages, Reports and Statistics, Event Log, Telemetry, and Radio Allocation. The main area displays the 'Radio Interface' with various controls and a 'Recent Calls/Events' table.

Date	Control Station	Sender	Recipient	Message	Note
27.03.2014 15:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 14:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 13:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 12:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 11:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 10:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 9:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 8:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 7:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 6:00:00		RadioServer	All	The Control Station for this operation is not found	
27.03.2014 5:00:00		RadioServer	All	The Control Station for this operation is not found	

On **Telemetry** page dispatcher can monitor events assigned to VIOs. Telemetry page view can be different due to Telemetry task configuration:

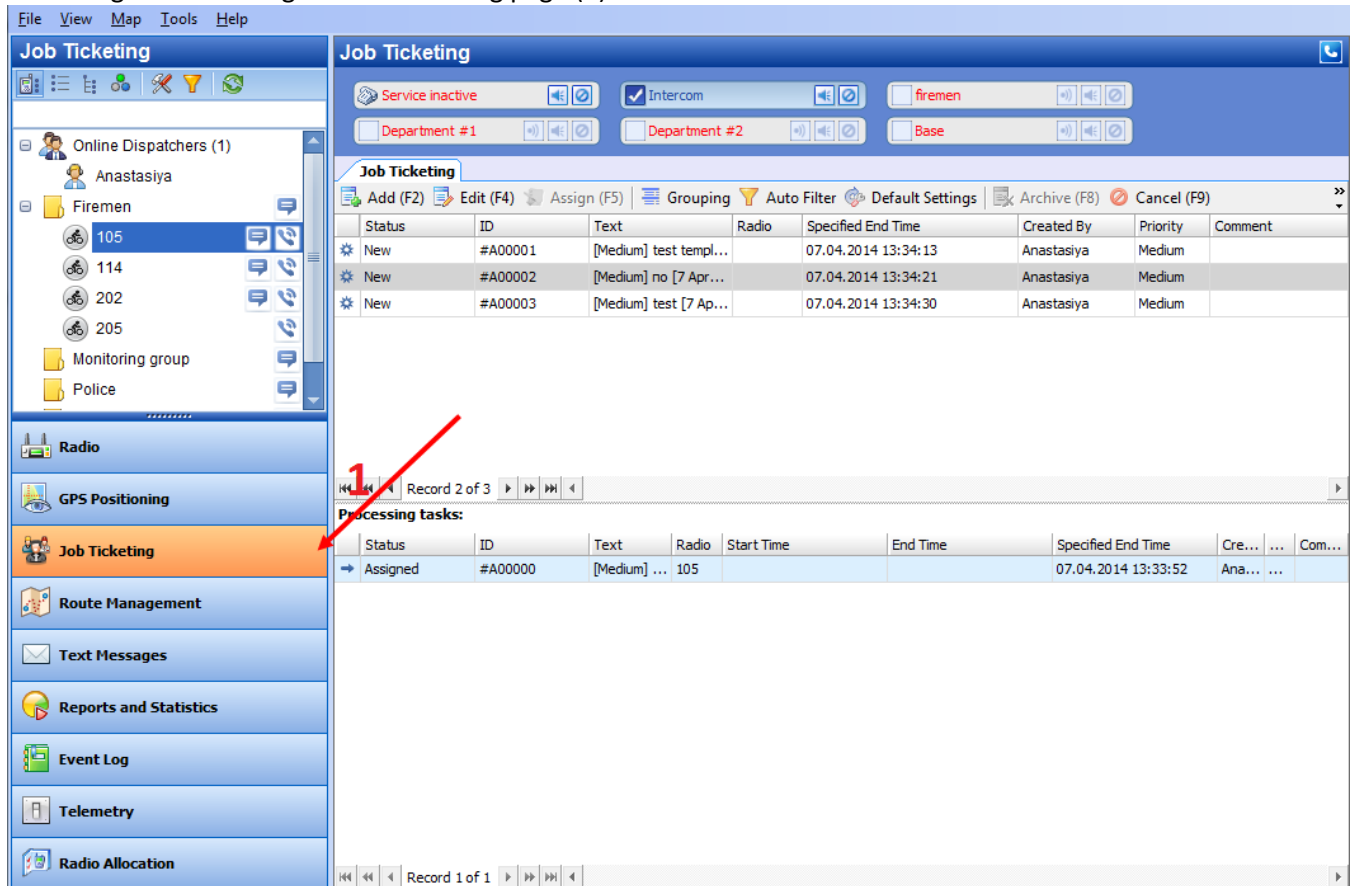


For more details see [TRBOnet Administration Guide](#), **Telemetry** section.
 Select radio in the navigation tree to see and update VIOs condition.

Job Ticketing

Job Ticketing feature allows Dispatcher to send commands to the subscriber radios and to receive answers. Dispatcher can compose, assign and cancel the command. Radio subscriber can accept, cancel, execute or complete the command.

To manage Job Tickets go to Job Ticketing page (1):



Job Ticketing

Service inactive ☒ Intercom ☐ firemen ☐
 Department #1 ☐ Department #2 ☐ Base ☐

Job Ticketing

Add (F2) Edit (F4) Assign (F5) Grouping Auto Filter Default Settings Archive (F8) Cancel (F9)

Status	ID	Text	Radio	Specified End Time	Created By	Priority	Comment
New	#A00001	[Medium] test templ...		07.04.2014 13:34:13	Anastasiya	Medium	
New	#A00002	[Medium] no [7 Apr...		07.04.2014 13:34:21	Anastasiya	Medium	
New	#A00003	[Medium] test [7 Ap...		07.04.2014 13:34:30	Anastasiya	Medium	

Processing tasks:

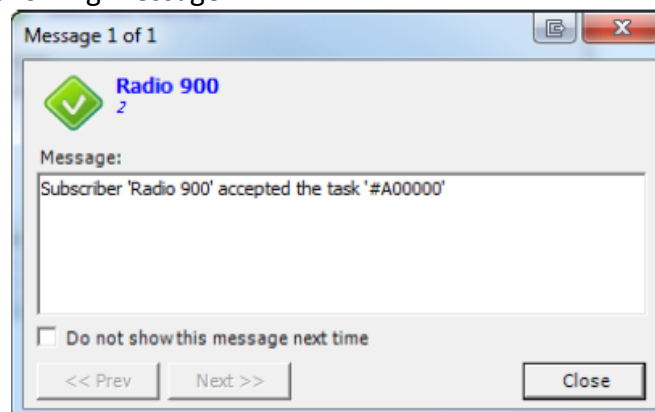
Status	ID	Text	Radio	Start Time	End Time	Specified End Time	Cre...	...	Com...
Assigned	#A00000	[Medium] ...	105			07.04.2014 13:33:52	Ana...	...	

For more details on Job Ticketing configuration and assigning to a radio see [TRBOnet Administration Guide, Configuring Job Ticketing](#) section.

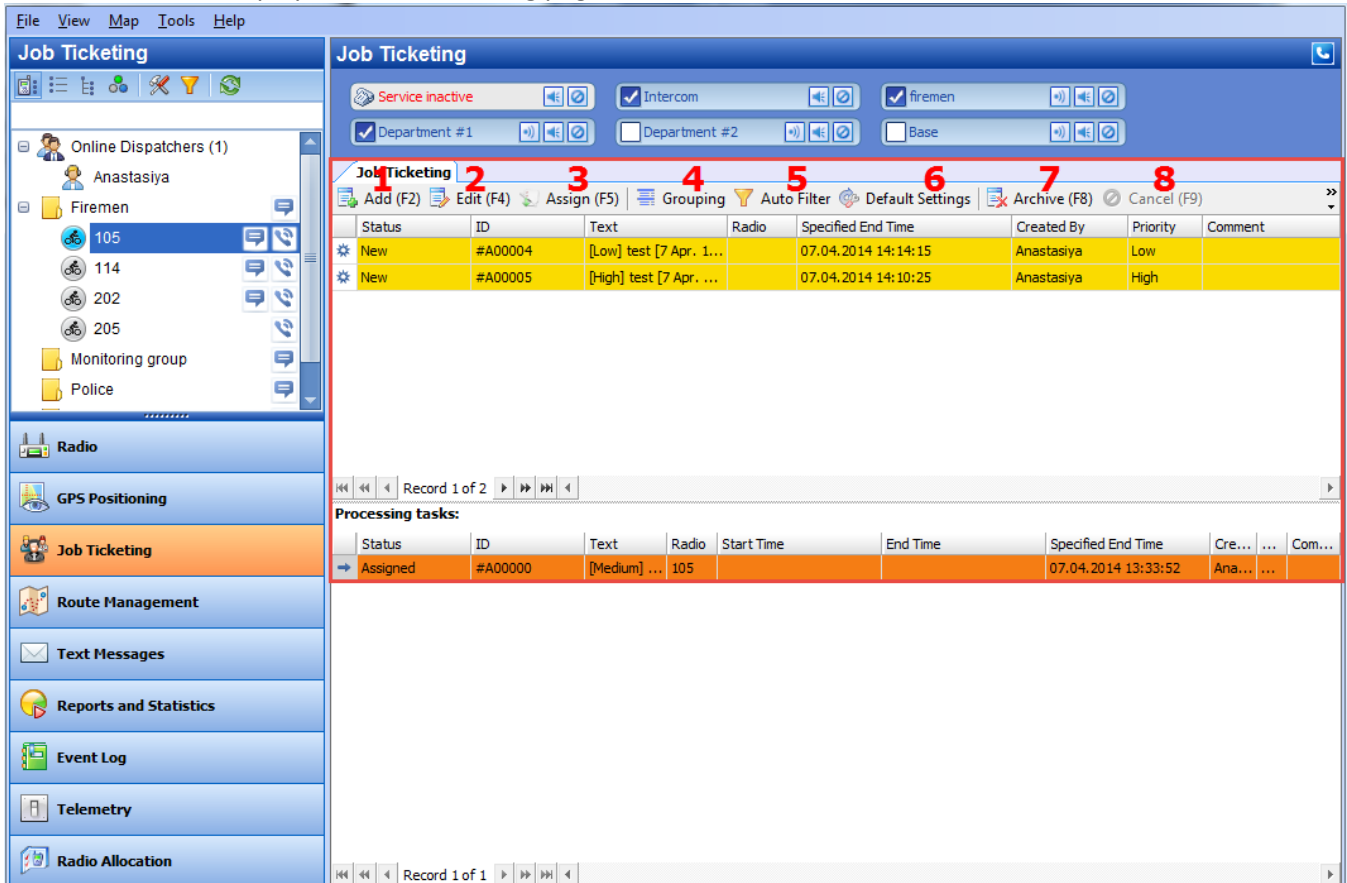
Note: Dispatcher can send Job Ticket to an offline subscriber. He will receive the task as soon as he will be online.

Subscriber can send the answer for the job ticket. Dispatcher will receive one of the four statuses: **In Progress, Completed, Cancelled, Rejected** whereas the subscriber chooses status he wants to send on his radio.

Dispatcher receives the following message:



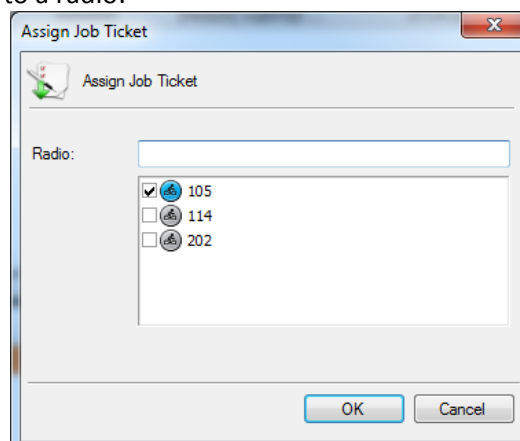
All Job Tickets are displayed on **Job Ticketing** page:



Job tickets marked with green are completed. The ones marked with yellow have five minutes to be accomplished before expiration. The orange ones are expired.
 In the lower part of the interface you see the **Processing Tasks**.

Dispatcher can manage Job Tickets using controls in the upper part of Job Ticketing Interface:

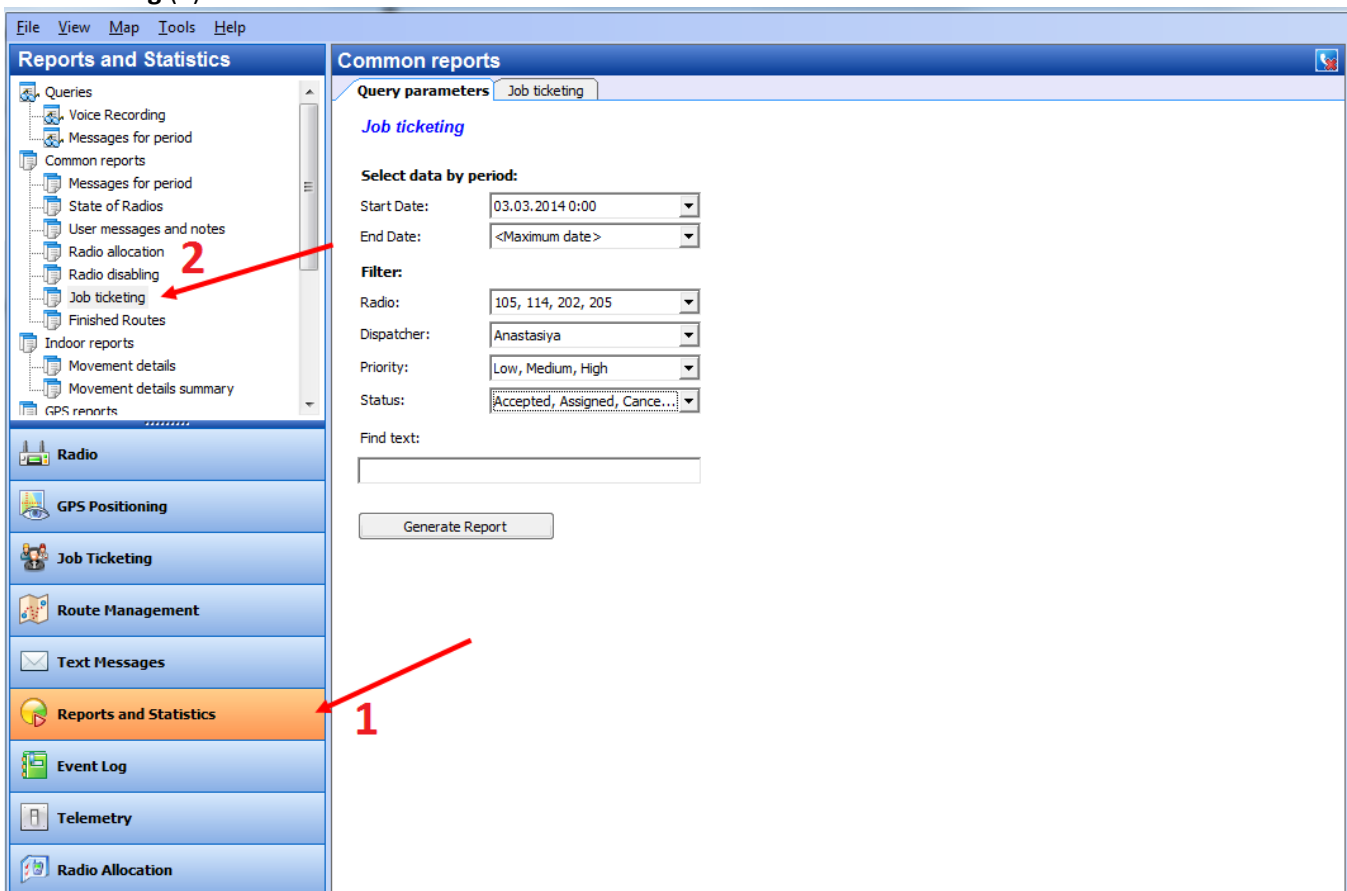
- 1 – **Add**. Click to add a new ticket
- 2 – **Edit**. Click to edit an existing ticket
- 3 – **Assign**. Click to assign a ticket to a radio:



Dispatcher can search the radio typing radio name in the «**Radio**» row.
 Select radio (s) to assign the ticket.

- 4 – **Grouping**. Click to group job tickets. Select column you want to group tickets by. Drag and drop selected column header in the Grouping field.
- 5 – **Auto Filter**. Click to set filter for job tickets. You can filter tickets by any parameter. E.g. to filter by selected radio select «**Radio**» column and type in radio name to filter the data:
- 6 – **Default Settings**. Click to apply default settings to all job tickets.
- 7 – **Archive**. Click to hide job ticket in the new tickets list.
- 8 – **Cancel**. Click to cancel job ticket. You can cancel only processing tasks.

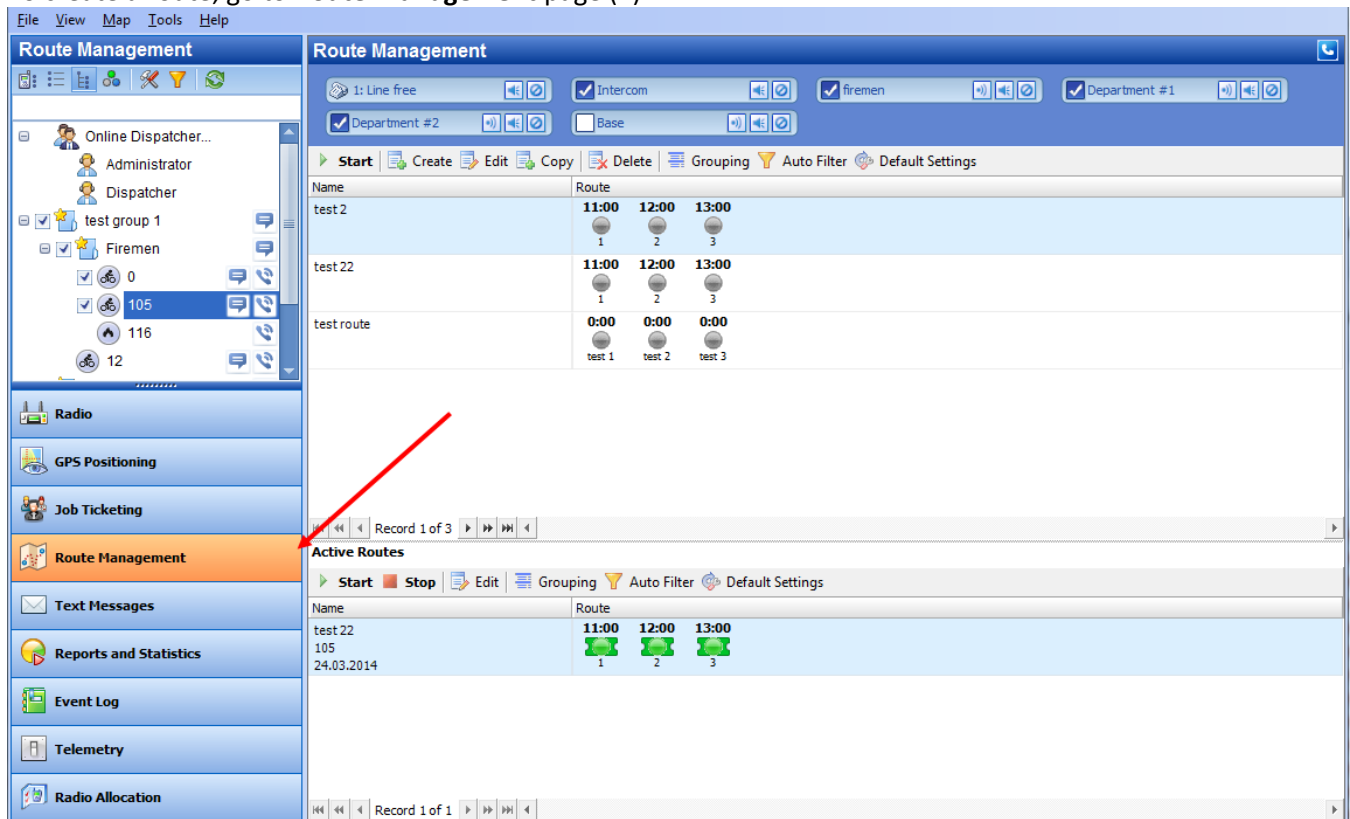
Dispatcher can see reports of Job Tickets. Go to **Reports and Statistics** (1) page and select **Common Reports – Job Ticketing** (2):



Dispatcher can see Job Ticketing Monitoring in a window to monitor all Job Tickets in the system, created by Dispatchers and assigned to Radios. For more details on Job Ticketing monitoring see [TRBOnet Administration Guide](#), **Tools** section.

Route Management

Route Management feature allows create routs and assign to selected radio subscribers or dispatchers. To create a route, go to **Route Management** page (1):

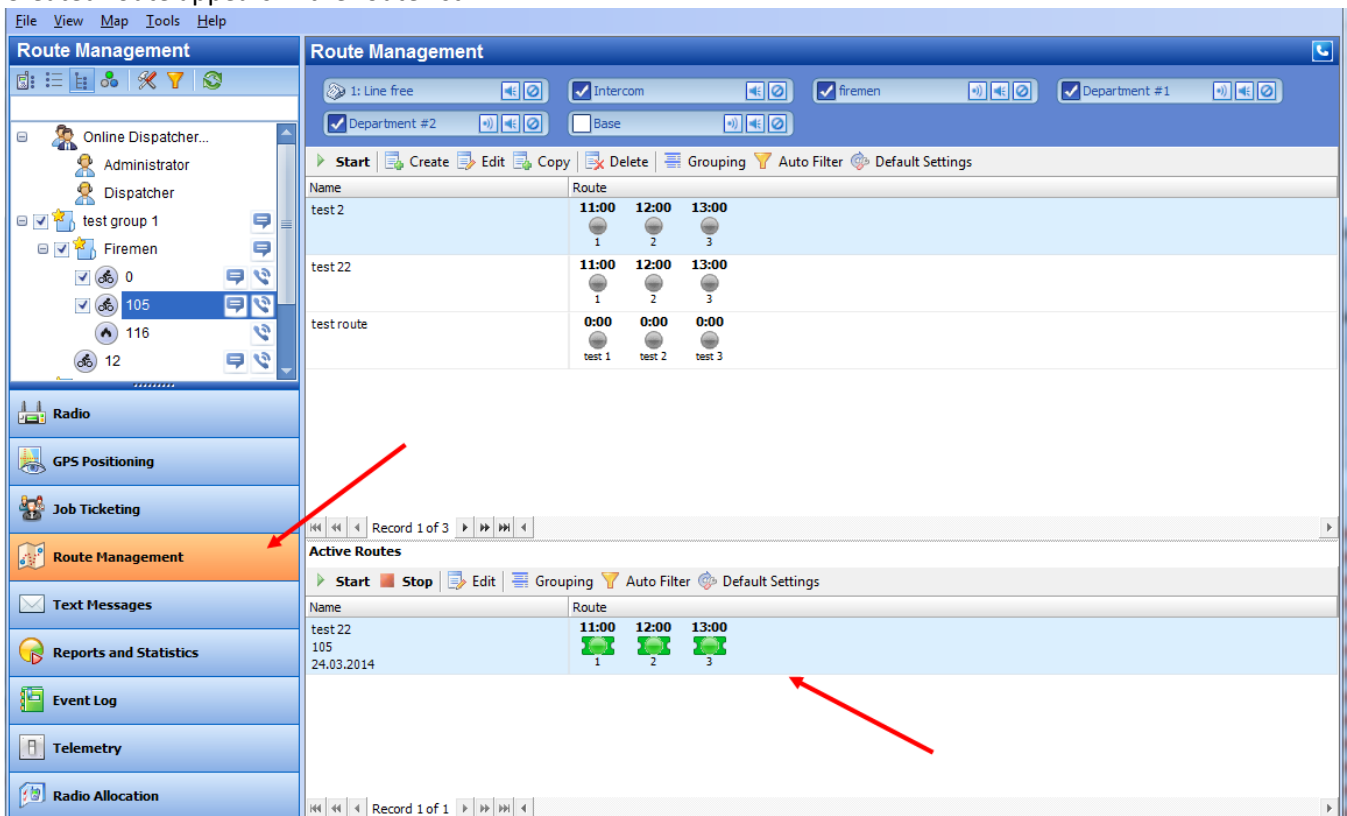


The screenshot shows the TRBOnet software interface. On the left is a sidebar with a tree view containing 'Online Dispatcher...', 'Radio', 'GPS Positioning', 'Job Ticketing', 'Route Management' (highlighted with a red arrow), 'Text Messages', 'Reports and Statistics', 'Event Log', 'Telemetry', and 'Radio Allocation'. The main window is titled 'Route Management' and contains a table of routes. The table has columns for 'Name' and 'Route'. The 'Route' column is further divided into three sub-columns for time slots: 11:00, 12:00, and 13:00. The table lists three routes: 'test 2', 'test 22', and 'test route'. 'test 2' and 'test 22' have radio subscribers assigned to the 11:00, 12:00, and 13:00 slots. 'test route' has radio subscribers assigned to the 0:00 slot. Below the table is a pagination bar showing 'Record 1 of 3'. The 'Route Management' window also includes a toolbar with buttons for 'Start', 'Create', 'Edit', 'Copy', 'Delete', 'Grouping', 'Auto Filter', and 'Default Settings'.

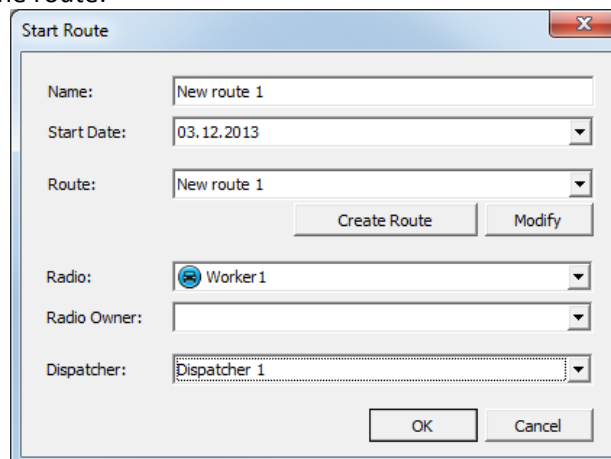
Name	Route
test 2	11:00 12:00 13:00 1 2 3
test 22	11:00 12:00 13:00 1 2 3
test route	0:00 0:00 0:00 test 1 test 2 test 3

For more details on Routes creation see [TRBOnet Administration Guide](#), **Route Management** section.

Created route appears in the route list:



Click «Start» button to start the route:



The 'Start Route' dialog box is shown. It contains the following fields and buttons:

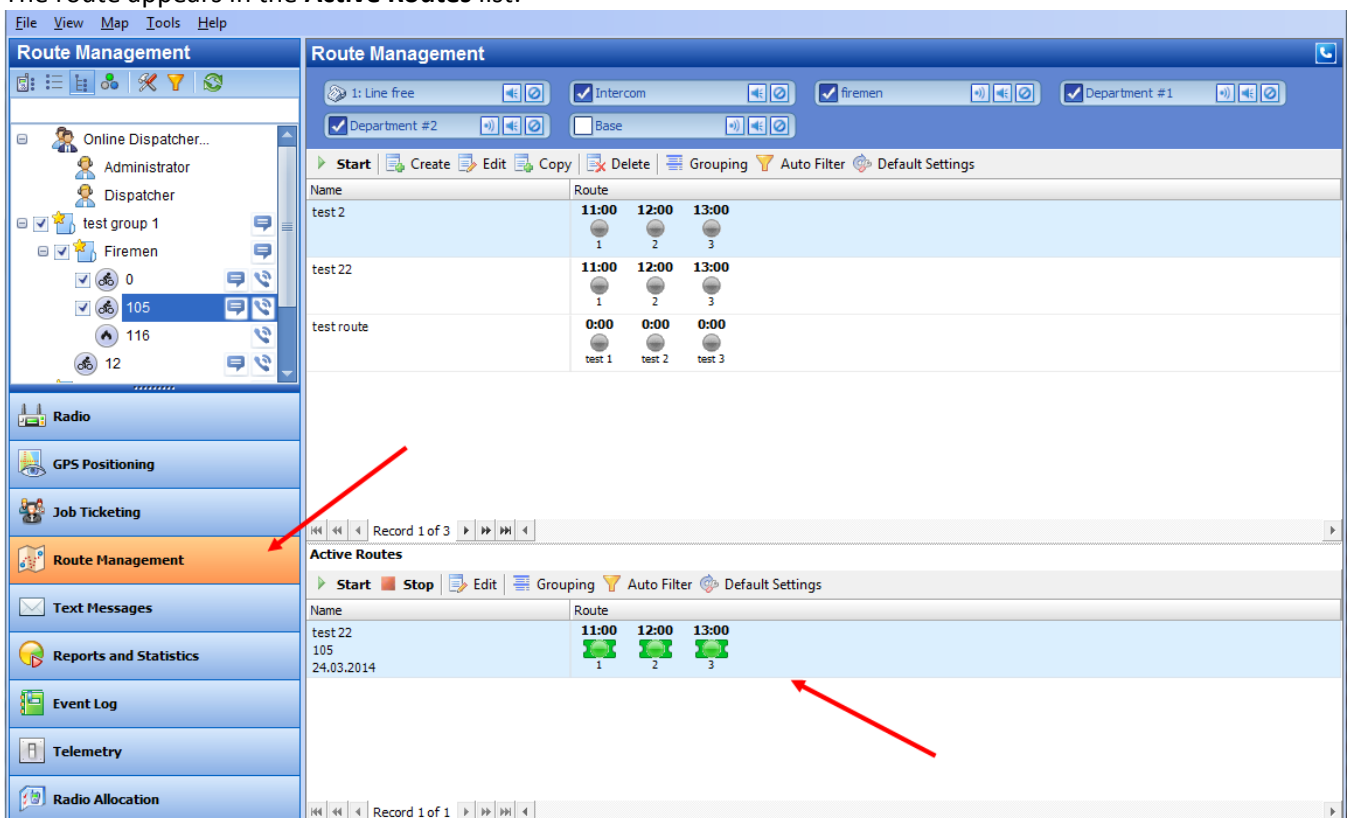
- Name: New route 1
- Start Date: 03.12.2013
- Route: New route 1
- Radio: Worker 1
- Radio Owner: (empty)
- Dispatcher: Dispatcher 1
- Buttons: Create Route, Modify, OK, Cancel

- **Name** – specify a name for Active route;
- **Start Date** – select a date to start the route;
- **Route** – select route to start in the dropdown list. Click «**Create Route**» button to create new route based on selected route. Click «**Modify**» button to modify selected route parameters.
- **Radio** – select Radio to assign the route;
- **Radio Owner** – select User to assign the route. For more details on Users creation [TRBOnet Administration Guide, Users section](#);
- **Dispatcher** – select a Dispatcher to monitor the route.

Note: do not select both: **Radio** and **Radio Owner** to prevent incorrect route running.

Click «OK» to start a route.

The route appears in the **Active Routes** list:

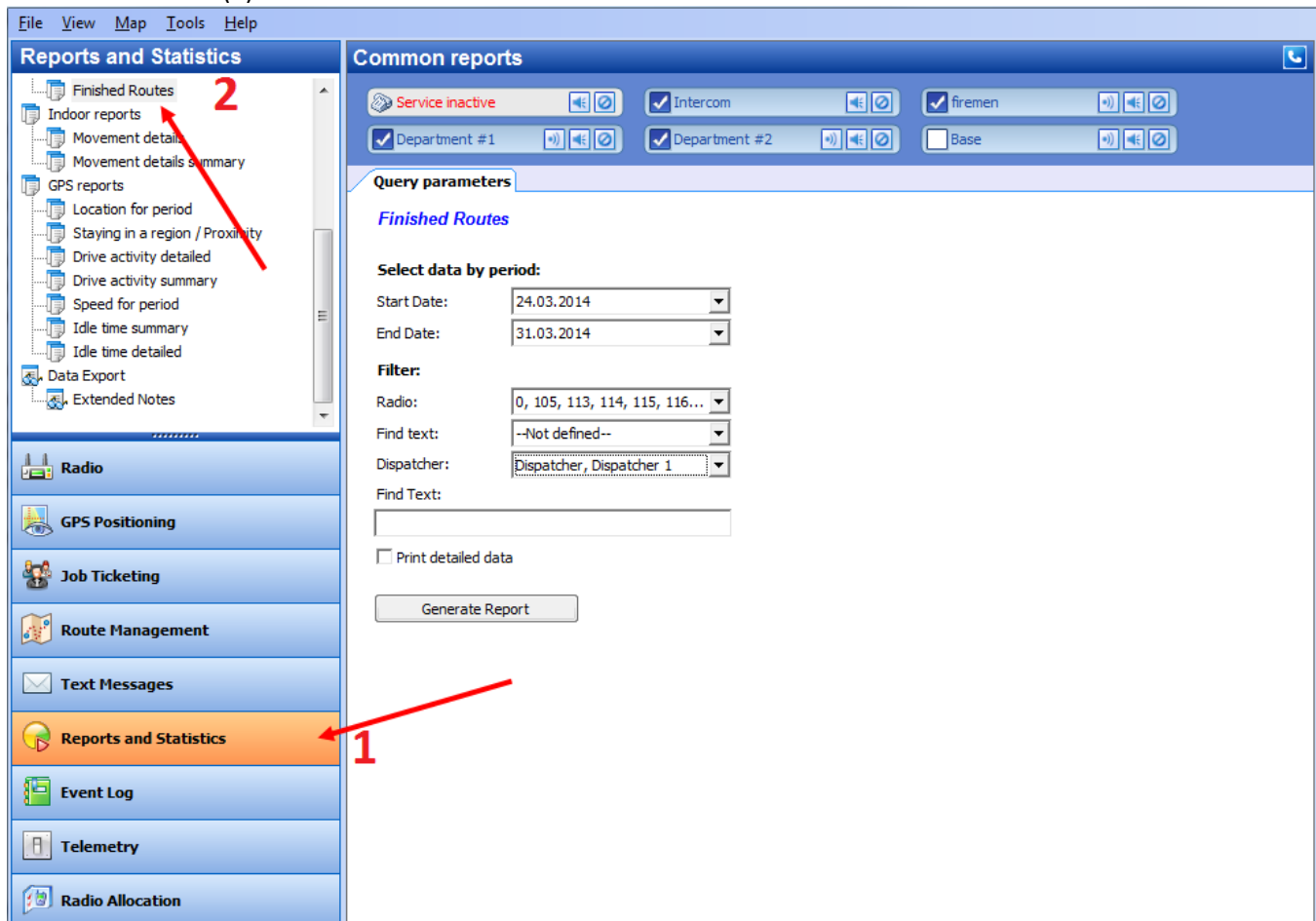


The screenshot shows the TRBOnet Route Management interface. The left sidebar contains a tree view with the following items: Online Dispatcher..., Administrator, Dispatcher, test group 1, Firemen, 0, 105, 116, 12, Radio, GPS Positioning, Job Ticketing, Route Management (highlighted with a red arrow), Text Messages, Reports and Statistics, Event Log, Telemetry, and Radio Allocation. The main window has a menu bar (File, View, Map, Tools, Help) and a toolbar with buttons for Start, Create, Edit, Copy, Delete, Grouping, Auto Filter, and Default Settings. The 'Created Routes' tab is active, showing a table with columns 'Name' and 'Route'. The table contains three rows: 'test 2' (11:00, 12:00, 13:00), 'test 22' (11:00, 12:00, 13:00), and 'test route' (0:00, 0:00, 0:00). The 'Active Routes' tab is also visible, showing a table with columns 'Name' and 'Route'. The table contains two rows: 'test 22' (11:00, 12:00, 13:00) and '105' (24.03.2014). A red arrow points to the 'test 22' route in the 'Active Routes' list.

If the point is not served, it becomes red.

Click «Stop» button to replace active route in the Created routes list.

Dispatcher can see reports of finished routes. Go to **Reports and Statistics (1)** page and select **Common Reports – Finished Routes (2)**:



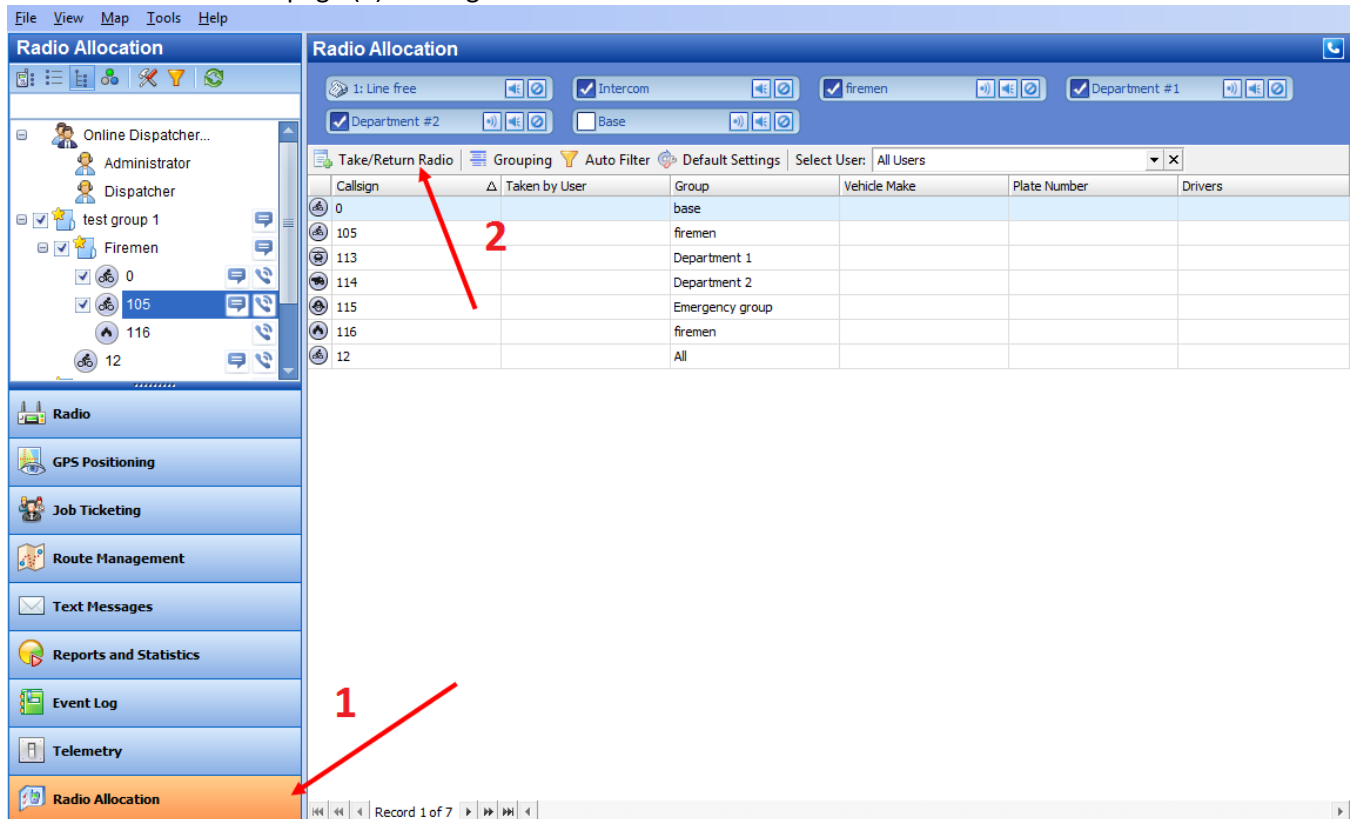
The screenshot shows the TRBOnet software interface. On the left, a sidebar menu is visible with the following items: Radio, GPS Positioning, Job Ticketing, Route Management, Text Messages, **Reports and Statistics** (highlighted with a red arrow and labeled '1'), Event Log, Telemetry, and Radio Allocation. Within the 'Reports and Statistics' section, a sub-menu is expanded, showing 'Finished Routes' (highlighted with a red arrow and labeled '2'), Indoor reports, Movement details, Movement details summary, GPS reports, Location for period, Staying in a region / Proximity, Drive activity detailed, Drive activity summary, Speed for period, Idle time summary, Idle time detailed, Data Export, and Extended Notes. The main window displays the 'Common reports' section. It includes a 'Service inactive' status indicator, checkboxes for 'Intercom', 'firemen', 'Department #1', 'Department #2', and 'Base'. Below these are 'Query parameters' for 'Finished Routes', including 'Select data by period' (Start Date: 24.03.2014, End Date: 31.03.2014), a 'Filter' section (Radio: 0, 105, 113, 114, 115, 116..., Find text: --Not defined--, Dispatcher: Dispatcher, Dispatcher 1, Find Text:), and a 'Print detailed data' checkbox. A 'Generate Report' button is at the bottom.

Radio Allocation

Selected radio can be assigned in the system to selected employee registered in the system.

All available radios are disabled and an employee will need to type in username and password to take and enable selected radio. When an employee returns allocated radio it gets disabled again.

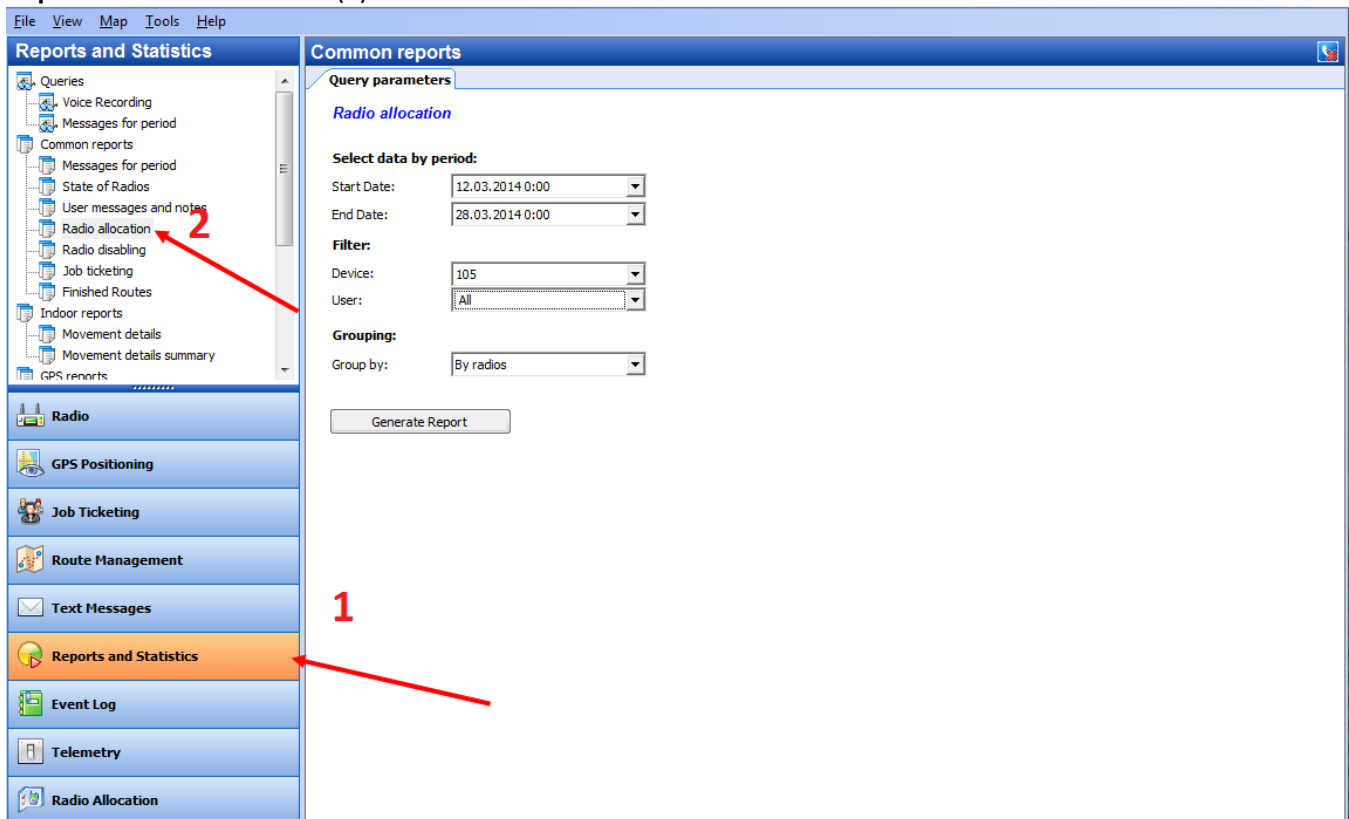
Go to **Radio Allocation** page (1) to assign radios to users:



Callsign	Taken by User	Group	Vehicle Make	Plate Number	Drivers
0		base			
105		firemen			
113		Department 1			
114		Department 2			
115		Emergency group			
116		firemen			
12		All			

For more details on Routes creation see [TRBOnet Administration Guide](#), **Radio Allocation** section.

Dispatcher can see reports of allocated radios. Go to **Reports and Statistics** (1) page and select **Common Reports – Radio Allocation** (2):



The screenshot shows the TRBOnet software interface. On the left, there is a sidebar with a tree view under the 'Reports and Statistics' section. The 'Radio allocation' option is selected, indicated by a red arrow and the number '2'. The main area displays the 'Common reports' section, also with 'Radio allocation' selected. Below this, there are fields for 'Select data by period' (Start Date: 12.03.2014 0:00, End Date: 28.03.2014 0:00), 'Filter' (Device: 105, User: All), and 'Grouping' (Group by: By radios). A 'Generate Report' button is located at the bottom of this section. A red arrow and the number '1' point to the 'Reports and Statistics' button in the left sidebar.

Web Console User Manual

TRBOnet Web Console is a special on-line application. It is an extension for TRBOnet Dispatch Software which allows the dispatchers to get access to a system using web browser. Web Console is the best solution for carriers, operators and systems with the huge number of users.

This application allows you to monitor your system without any special software installed on your computer. It is also possible to do it from the iPad, Smartphone, etc. All you need is just to specify the address of your system and server.

Map


In the **Map** interface user can monitor the current GPS location of the subscribers.

In the Navigation tree you may see the list of your subscribers divided into groups




1 – **Navigation tree** – list of subscribers divided into groups;

Click  button to see the subscriber in the center of the map.

Click  button to see the route of the subscriber. Specify the date and time. You may also optimize route (group all nearest points).

Click  button to request GPS data of the subscriber.

Click  button to see the subscriber properties.

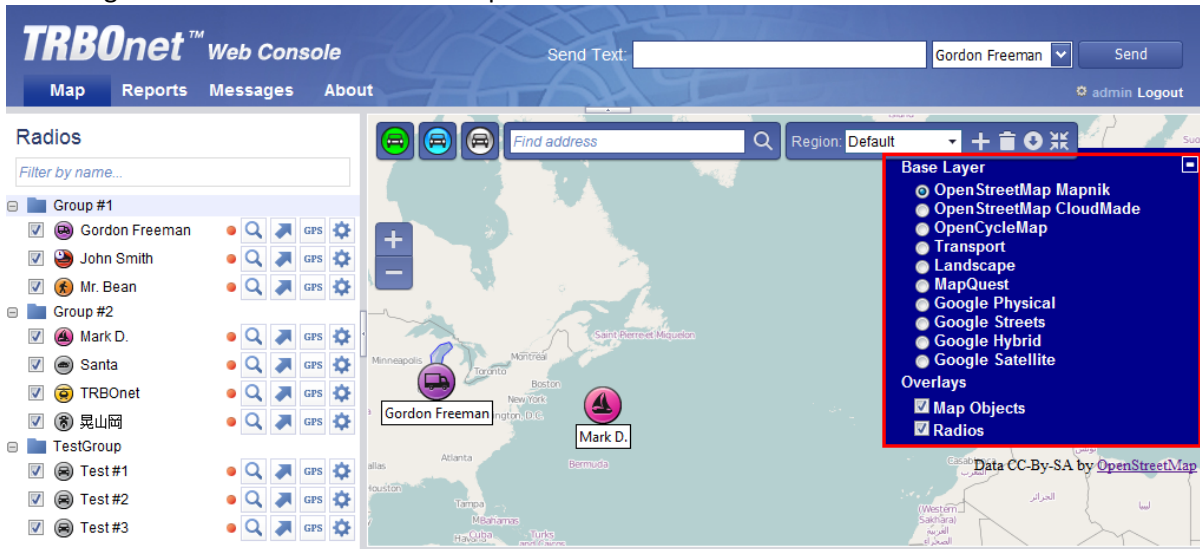
2 – **Filter by name** – type in subscriber's name to find in the list;

3 – **Quick text messages**. Type in text message and select the subscriber to send the message;

Note: The dot in front of the subscriber reflects the remoteness of the GPS data received by the system. Green means that data is received less than 2 minutes ago. Orange - from 2 up to 5 minutes ago. Red - more than 5 minutes ago. Click the subscriber to see more detailed information (speed of the subscriber and when the last GPS signal was received).

Click the subscriber sign on the map to see its geographical location, its mobility, and current time of the place where the subscriber is used at the moment.

4 - Click this sign to see the list of available maps:



5 – zoom – select to zoom the map in or out. User can also use mouse scroll for these actions.

6 – subscriber current state icons:



- subscriber-on GPS-on - select to see the on-line subscribers with activated GPS function

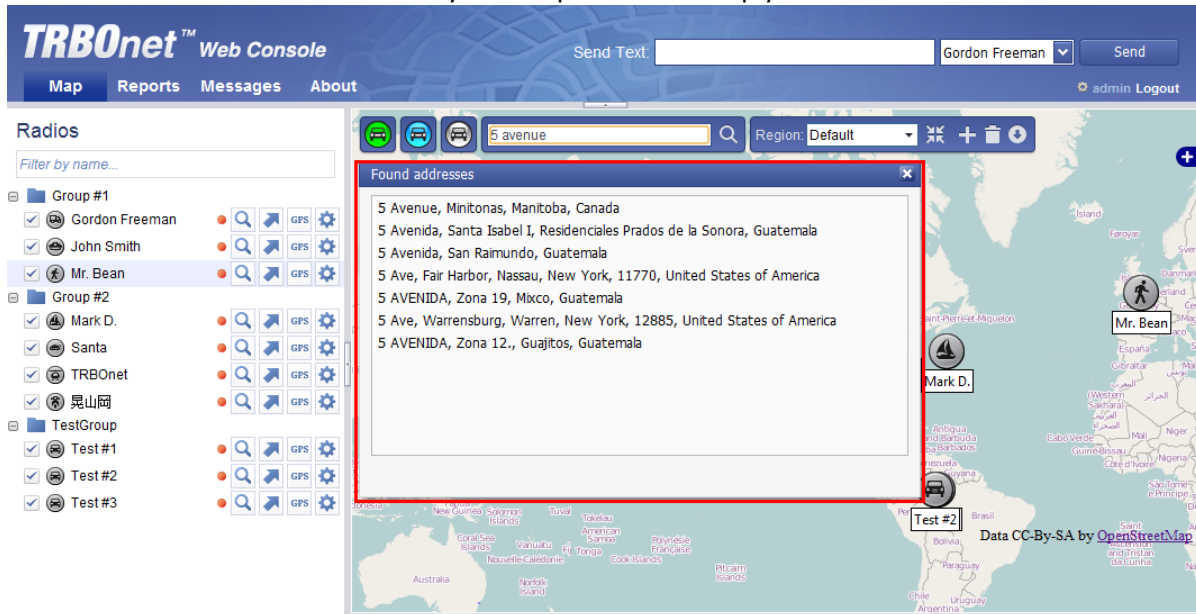


- subscriber-on GPS-off - select to see the on-line subscribers with deactivated GPS function



- subscriber-off GPS-off – select to see the off-line subscribers with deactivated GPS function.

7 – Find address function - select to find any certain place of the map you need:



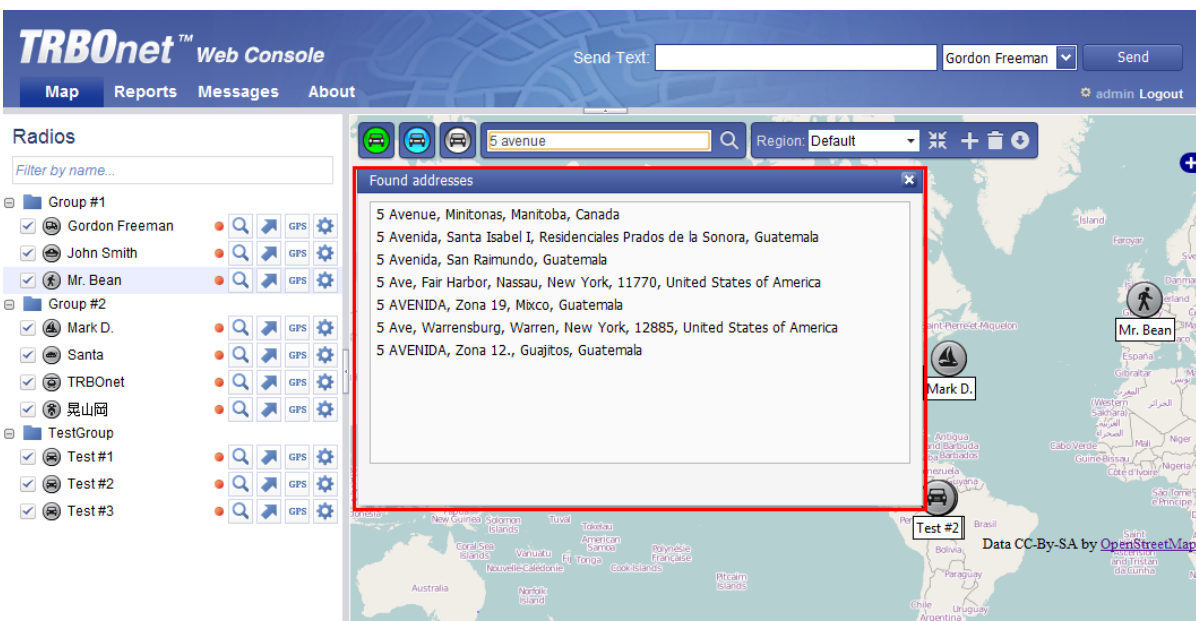
8 – Regions management.

Click «**Add new region**» button to save the region you see on the map at the moment;

Click «**Delete region**» button to delete selected region;

Click «**Save region**» button to make selected region as default.

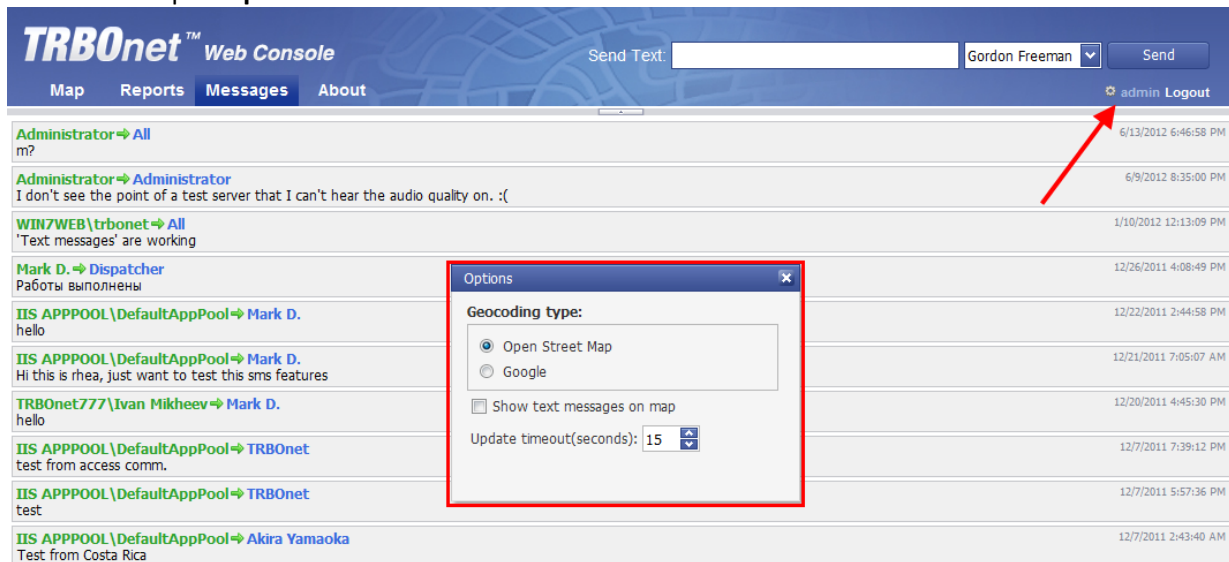
Select one of the regions you created in the **Region** line and click «**Go to the region**» button to see it.



Note: Default region is activated when you start Web Console. When you launch it for the first time Default region is whole map, but you can change it.

Geocoding Type

Go to **Admin** tab open **Options** table:



TRBOnet™ Web Console

Send Text: Gordon Freeman admin Logout

Map Reports Messages About

Administrator → All m? 6/13/2012 6:46:58 PM

Administrator → Administrator I don't see the point of a test server that I can't hear the audio quality on. :(6/9/2012 8:35:00 PM

WIN7WEB\trbonet → All 'Text messages' are working 1/10/2012 12:13:09 PM

Mark D. → Dispatcher Работы выполнены 12/26/2011 4:08:49 PM

IIS APPPOOL\DefaultAppPool → Mark D. hello 12/22/2011 2:44:58 PM

IIS APPPOOL\DefaultAppPool → Mark D. Hi this is rhea, just want to test this sms features 12/21/2011 7:05:07 AM

TRBOnet777\Ivan Mikheev → Mark D. hello 12/20/2011 4:45:30 PM

IIS APPPOOL\DefaultAppPool → TRBOnet test from access comm. 12/7/2011 7:39:12 PM

IIS APPPOOL\DefaultAppPool → TRBOnet test 12/7/2011 5:57:36 PM

IIS APPPOOL\DefaultAppPool → Akira Yamaoka Test from Costa Rica 12/7/2011 2:43:40 AM

Options

Geocoding type:

☒ Open Street Map
☐ Google

☒ Show text messages on map

Update timeout(seconds): 15

- Geocoding type- select the geocoding source to use with Web Console (to get the coordinates from);
- Show text messages on map – select to see text message interface on the map;
- Update timeout (seconds) – select time period to update coordinates of the subscriber.

Reports

Go to **Reports** tab to generate detailed reports concerning subscribers, to print and export those reports:

TRBOnet™ Web Console

Send Text:
 Gordon Freeman
 Send

Map
 Reports
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 About

admin Logout

GPS Reports
 Location for Period
 Drive Activity Detailed
 Staying in a region
 Idle time detailed
 Common Reports
 Messages for Period

Location for Period

Select data by period:

Start Date: 9/19/2012 2:36 PM

End Date: 9/26/2012 2:36 PM

Filter:

Radio: All

Min.Interval: 0 Seconds

☐ Show name of streets (Reduces speed of report generation)

Generate Report

GPS Reports

GPS Reports show all subscribers' location and activity details.

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Map
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GPS Reports

- Location for Period
- Drive Activity Detailed
- Staying in a region
- Idle time detailed

Common Reports

- Messages for Period

Location for Period

Select data by period:

Start Date: ▼

End Date: ▼

Filter:

Radio: ▼

Min.Interval: ▼ Minutes ▼

☐ Show name of streets (Reduces speed of report generation)

Generate Report

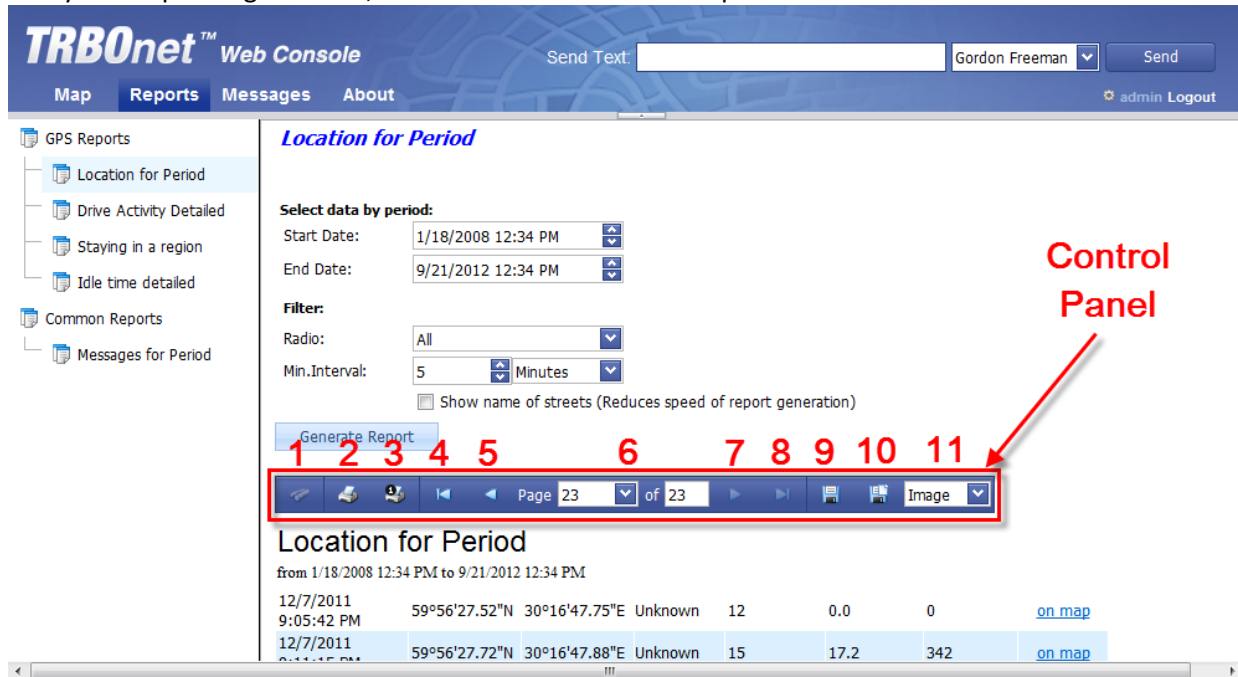
🖨️
👤
⏮️
⏪️
Page 23 of 23
⏩️
⏭️
🖼️
Image
▼

Location for Period

from 1/18/2008 12:34 PM to 9/21/2012 12:34 PM

12/7/2011 9:05:42 PM	59°56'27.52"N 30°16'47.75"E	Unknown	12	0.0	0	on map
12/7/2011 8:11:15 PM	59°56'27.72"N 30°16'47.88"E	Unknown	15	17.2	342	on map

When any GPS report is generated, use Control Panel to save or print it:



TRBOnet™ Web Console

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Map Reports Messages About

GPS Reports

- Location for Period
- Drive Activity Detailed
- Staying in a region
- Idle time detailed

Common Reports

- Messages for Period

Location for Period

Select data by period:

Start Date: 1/18/2008 12:34 PM

End Date: 9/21/2012 12:34 PM

Filter:

Radio: All

Min.Interval: 5 Minutes

☐ Show name of streets (Reduces speed of report generation)

Control Panel

1 2 3 4 5 6 7 8 9 10 11

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Location for Period

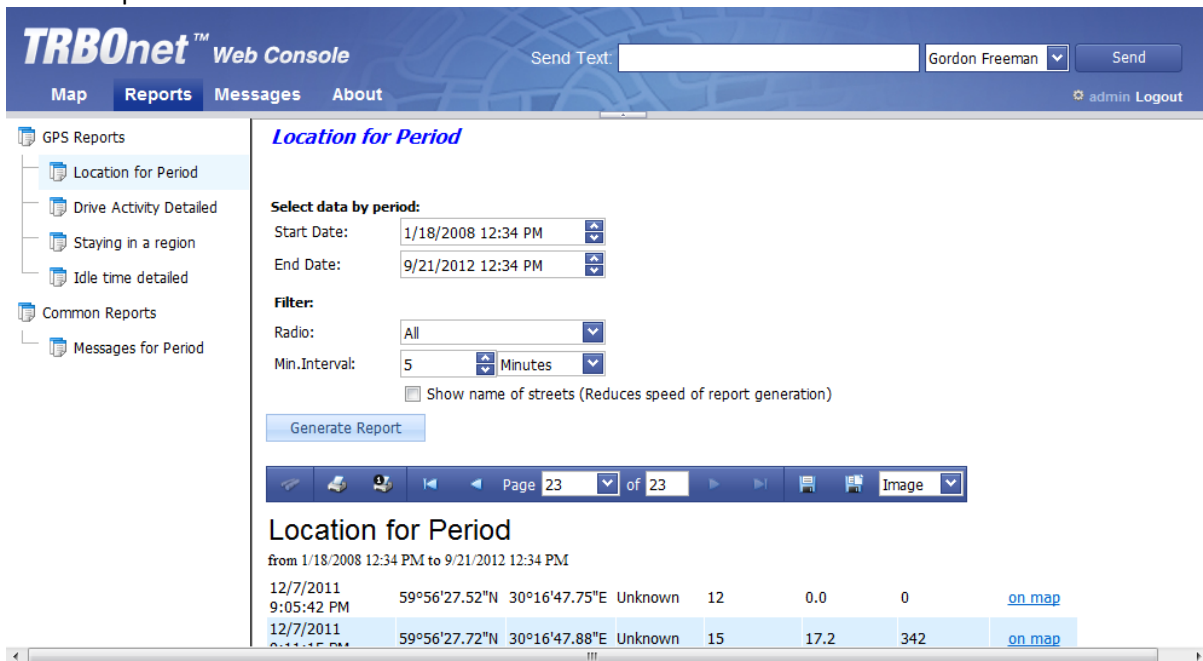
from 1/18/2008 12:34 PM to 9/21/2012 12:34 PM

12/7/2011 9:05:42 PM	59°56'27.52"N	30°16'47.75"E	Unknown	12	0.0	0	on map
12/7/2011 8:11:12 PM	59°56'27.72"N	30°16'47.88"E	Unknown	15	17.2	342	on map

- 1 - **Display the search window** - represents a button to invoke the search dialog, allowing the users to search for specific text in a report;
- 2 - **Print the report** - click to print the report;
- 3 - **Print the current page** - click to print only current page;
- 4 - **First page** - click to go to the first page;
- 5 - **Previous page** - click to go to the previous page;
- 6 - **Page number** - click to see current page and go to other page you need;
- 7 - **Next page** - click to go to the next page;
- 8 - **Last page** - click to go to the last page;
- 9 - **Export a report and save it to the disk** - click to download the report;
- 10 - **Export a report and show it in a new window** - click to open the report in the new window;
- 11 - **Format** - select the format to save your report in.

Location for Period

Select to know the location of the subscriber for selected time period. Click «**Generate Report**» button to generate the report:



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Map Reports Messages About

GPS Reports

- Location for Period
- Drive Activity Detailed
- Staying in a region
- Idle time detailed

Common Reports

- Messages for Period

Location for Period

Select data by period:

Start Date: 1/18/2008 12:34 PM

End Date: 9/21/2012 12:34 PM

Filter:

Radio: All

Min.Interval: 5 Minutes

☐ Show name of streets (Reduces speed of report generation)

Page 23 of 23 Image

Location for Period

from 1/18/2008 12:34 PM to 9/21/2012 12:34 PM

12/7/2011 9:05:42 PM	59°56'27.52"N	30°16'47.75"E	Unknown	12	0.0	0	on map
12/7/2011 9:11:15 PM	59°56'27.72"N	30°16'47.88"E	Unknown	15	17.2	342	on map

Set the following parameters:

Select data by period:

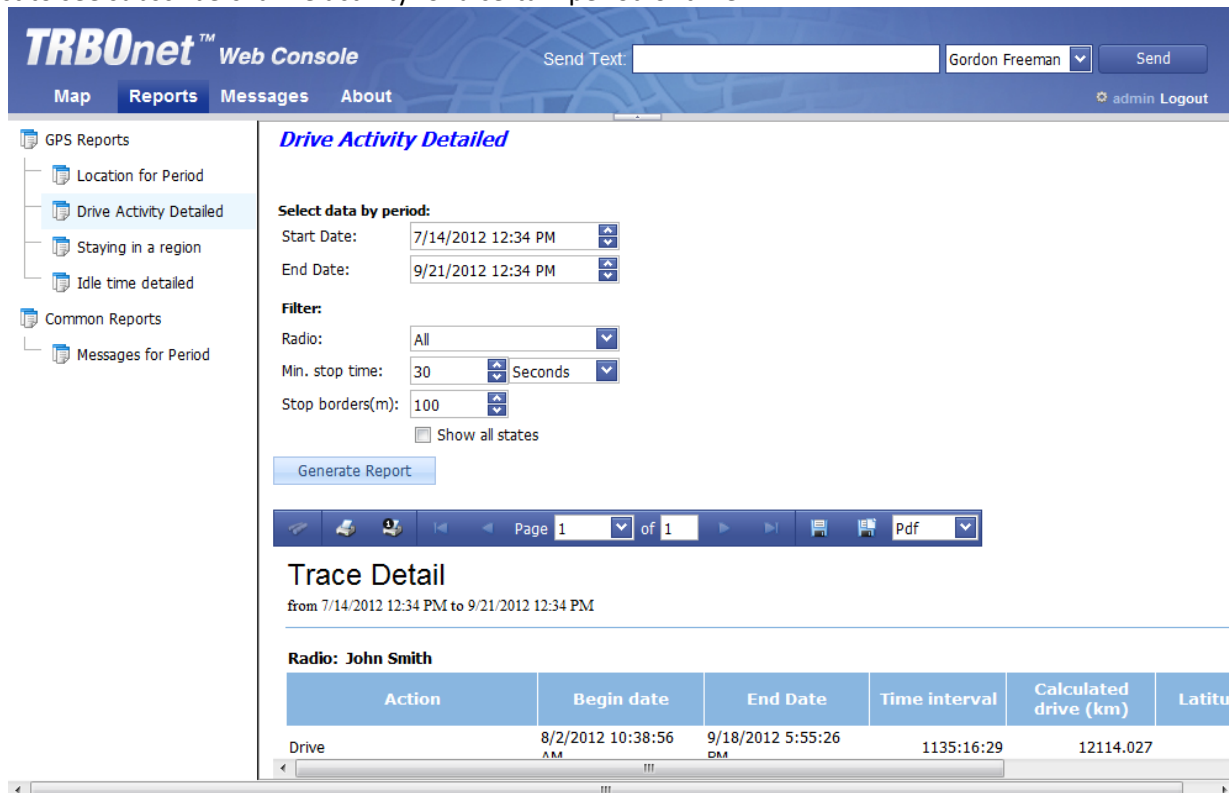
- **Start Date** - specify the start date;
- **End Date** - specify the end date.

Filter:

- **Radio** - select the subscriber to generate the report for;
- **Min. Interval** - sets the time interval to get the data (for example to show subscriber's location every 90 seconds). 90 seconds interval is recommended for one day report.
- **Show names of streets (reduces speed of report generation)** - select to see the names of the streets in the report.

Drive Activity Detailed

Select to see subscribers' drive activity for a certain period of time:



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Map Reports Messages About

GPS Reports

- Location for Period
- Drive Activity Detailed**
- Staying in a region
- Idle time detailed

Common Reports

- Messages for Period

Drive Activity Detailed

Select data by period:

Start Date: 7/14/2012 12:34 PM

End Date: 9/21/2012 12:34 PM

Filter:

Radio: All

Min. stop time: 30 Seconds

Stop borders(m): 100

☐ Show all states

Page 1 of 1 Pdf

Trace Detail

from 7/14/2012 12:34 PM to 9/21/2012 12:34 PM

Radio: John Smith

Action	Begin date	End Date	Time interval	Calculated drive (km)	Latitude
Drive	8/2/2012 10:38:56 AM	9/18/2012 5:55:26 PM	1135:16:29	12114.027	

Set the following parameters:

Select data by period:

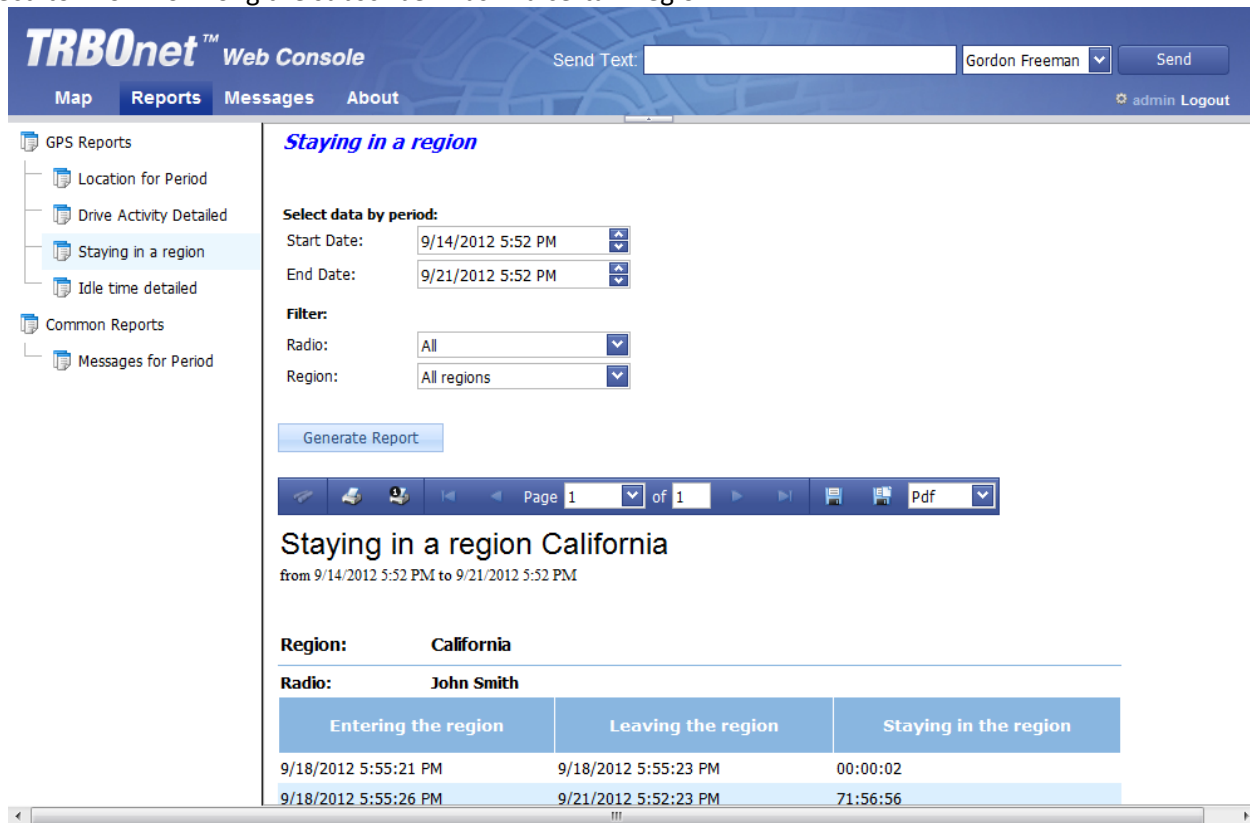
- **Start Date** - specify the start date;
- **End Date** - specify the end date.

Filter:

- **Radio** - select the subscriber to generate the report for;
- **Min. stop time** - sets the minimum time interval considered to be a stop;
- **Stop borders (m)** - sets the zone as stop borders;
- **Show all states** - select to see all the states of the subscriber in the report.

Staying In A Region

Select to know how long the subscriber was in a certain region:



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Map Reports Messages About

GPS Reports
 Location for Period
 Drive Activity Detailed
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Staying in a region

Select data by period:
 Start Date: 9/14/2012 5:52 PM
 End Date: 9/21/2012 5:52 PM

Filter:
 Radio: All
 Region: All regions

Page 1 of 1 Pdf

Staying in a region California
 from 9/14/2012 5:52 PM to 9/21/2012 5:52 PM

Region: California
 Radio: John Smith

Entering the region	Leaving the region	Staying in the region
9/18/2012 5:55:21 PM	9/18/2012 5:55:23 PM	00:00:02
9/18/2012 5:55:26 PM	9/21/2012 5:52:23 PM	71:56:56

Set the following parameters:

Select data by period:

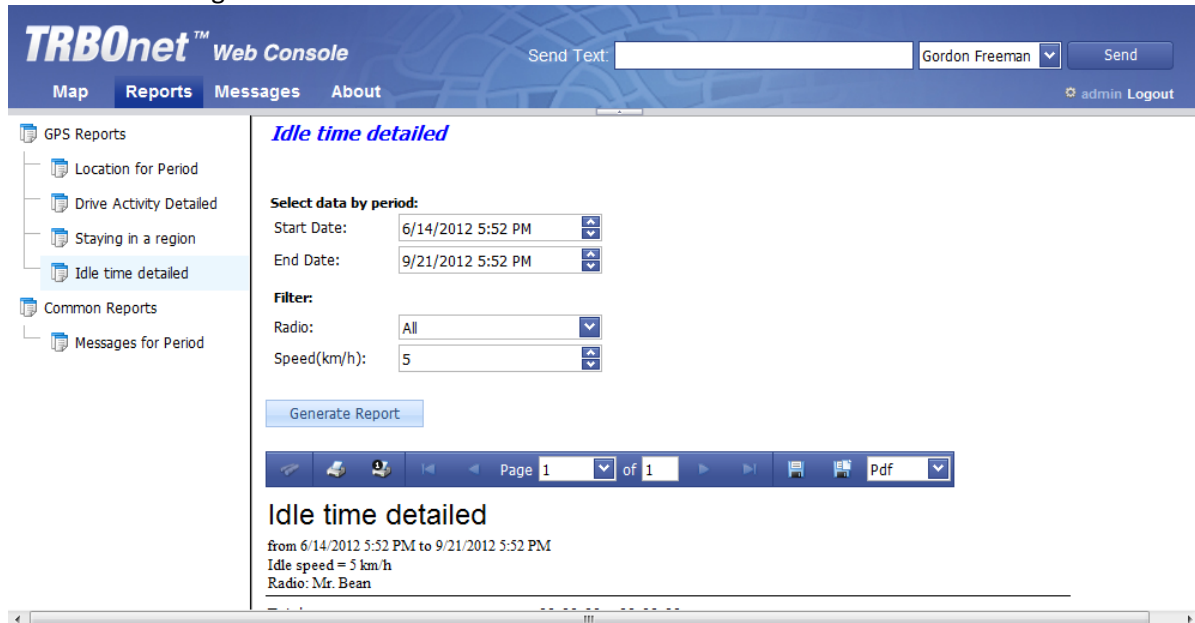
- **Start Date** - specify the start date;
- **End Date** - specify the end date.

Filter:

- **Radio** - select the subscriber to generate the report for;
- **Region** - select the region to generate the report for.

Idle time detailed

Select to know how long the subscriber was inactive:



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Send Text: Gordon Freeman

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Map Reports Messages About

GPS Reports

- Location for Period
- Drive Activity Detailed
- Staying in a region
- Idle time detailed**

Common Reports

- Messages for Period

Idle time detailed

Select data by period:

Start Date: 6/14/2012 5:52 PM

End Date: 9/21/2012 5:52 PM

Filter:

Radio: All

Speed(km/h): 5

Page 1 of 1 Pdf

Idle time detailed

from 6/14/2012 5:52 PM to 9/21/2012 5:52 PM

Idle speed = 5 km/h

Radio: Mr. Bean

Set the following parameters:

Select data by period:

- **Start Date** - specify the start date;
- **End Date** - specify the end date.

Filter:

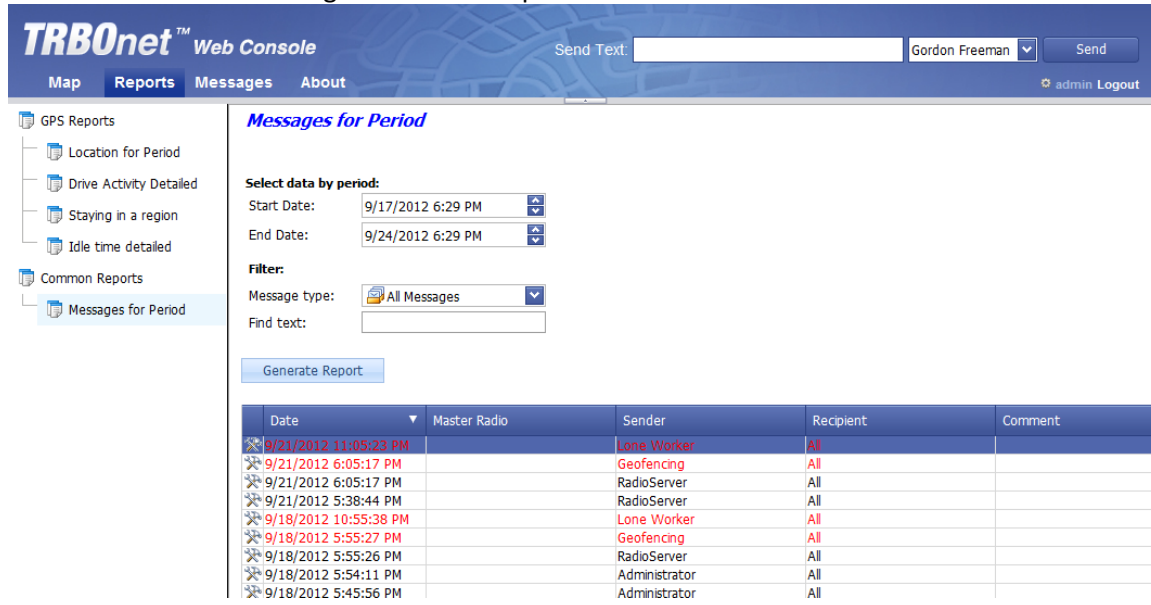
- **Radio** - select the subscriber to generate the report for;
- **Speed(km/h)** - select the lowest speed level starting idle time regime.

Common Reports

Common reports are the reports to show the message details for a certain period of time.

Messages for period

Select to see the subscriber messages for a certain period of time:



The screenshot shows the TRBOnet Web Console interface. The top navigation bar includes 'Map', 'Reports', 'Messages', and 'About'. The 'Messages for Period' report is selected. The interface includes a 'Send Text' field with a dropdown menu showing 'Gordon Freeman' and a 'Send' button. Below this, there's a 'Generate Report' button. The main content area displays a table of messages for the selected period.

Messages for Period

Select data by period:

Start Date: 9/17/2012 6:29 PM
 End Date: 9/24/2012 6:29 PM

Filter:

Message type: All Messages
 Find text:

Generate Report

Date	Master Radio	Sender	Recipient	Comment
9/21/2012 11:05:23 PM		Lone Worker	All	
9/21/2012 6:05:17 PM		Geofencing	All	
9/21/2012 6:05:17 PM		RadioServer	All	
9/21/2012 5:38:44 PM		RadioServer	All	
9/18/2012 10:55:38 PM		Lone Worker	All	
9/18/2012 5:55:27 PM		Geofencing	All	
9/18/2012 5:55:26 PM		RadioServer	All	
9/18/2012 5:54:11 PM		Administrator	All	
9/18/2012 5:45:56 PM		Administrator	All	

Set the following parameters:

Select data by period:

- **Start Date** - specify the start date;
- **End Date** - specify the end date.

Filter:

- **Radio** - select the subscriber to generate the report for;
- **Find Text** - specify the text symbols you want to find if necessary.

Click «Save as PDF» button to save the report in *pdf format:

TRBOnet™ Web Console

Send Text:
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Messages for Period

Select data by period:

Start Date: 9/17/2012 2:36 PM

End Date: 9/24/2012 2:36 PM

Filter:

Message type: All Messages

Find text:


Generate Report

Date	Master Radio	Sender	Recipient	Comment
9/21/2012 11:05:23 PM		Lone Worker	All	
9/21/2012 6:05:17 PM		Geofencing	All	
9/21/2012 6:05:17 PM		RadioServer	All	
9/21/2012 5:38:44 PM		RadioServer	All	
9/18/2012 10:55:38 PM		Lone Worker	All	
9/18/2012 5:55:27 PM		Geofencing	All	
9/18/2012 5:55:26 PM		RadioServer	All	
9/18/2012 5:54:11 PM		Administrator	All	
9/18/2012 5:45:56 PM		Administrator	All	
9/18/2012 5:45:55 PM		Administrator	All	
9/18/2012 5:45:51 PM		Administrator	All	

Save as PDF

Messages

Select to send and receive messages from the subscribers:



Send Text:
Gordon Freeman
Send

Map
Reports
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About

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Administrator → All m?	6/13/2012 6:46:58 PM
Administrator → Administrator I don't see the point of a test server that I can't hear the audio quality on. :(6/9/2012 8:35:00 PM
WIN7WEB\trbonet → All 'Text messages' are working	1/10/2012 12:13:09 PM
Mark D. → Dispatcher Работы выполнены	12/26/2011 4:08:49 PM
IIS APPPOOL\DefaultAppPool → Mark D. hello	12/22/2011 2:44:58 PM
IIS APPPOOL\DefaultAppPool → Mark D. Hi this is rhea, just want to test this sms features	12/21/2011 7:05:07 AM
TRBOnet777\Ivan Mikheev → Mark D. hello	12/20/2011 4:45:30 PM
IIS APPPOOL\DefaultAppPool → TRBOnet test from access comm.	12/7/2011 7:39:12 PM
IIS APPPOOL\DefaultAppPool → TRBOnet test	12/7/2011 5:57:36 PM
IIS APPPOOL\DefaultAppPool → Akira Yamaoka Test from Costa Rica	12/7/2011 2:43:40 AM

Type in text in «**Send text**» field;

Select the subscriber in the dropdown list.

Click «**Send**» button to send the text message.